

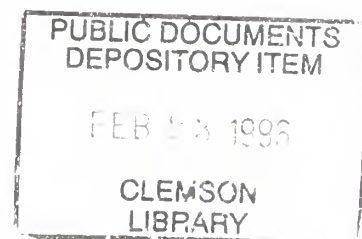


Historic Furnishings Report


Volume 2: Illustrations and Appendixes

EDISON LABORATORY

EDISON
National Historic Site/New Jersey



U.S. Department of the Interior/National Park Service



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HISTORIC FURNISHINGS REPORT

EDISON LABORATORY

Edison National Historic Site
West Orange, New Jersey

Volume 2
Illustrations and Appendixes

Prepared by

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National Park Service
1995

APPROVED:

Marie Rust
Regional Director, North Atlantic Region
August 31, 1994

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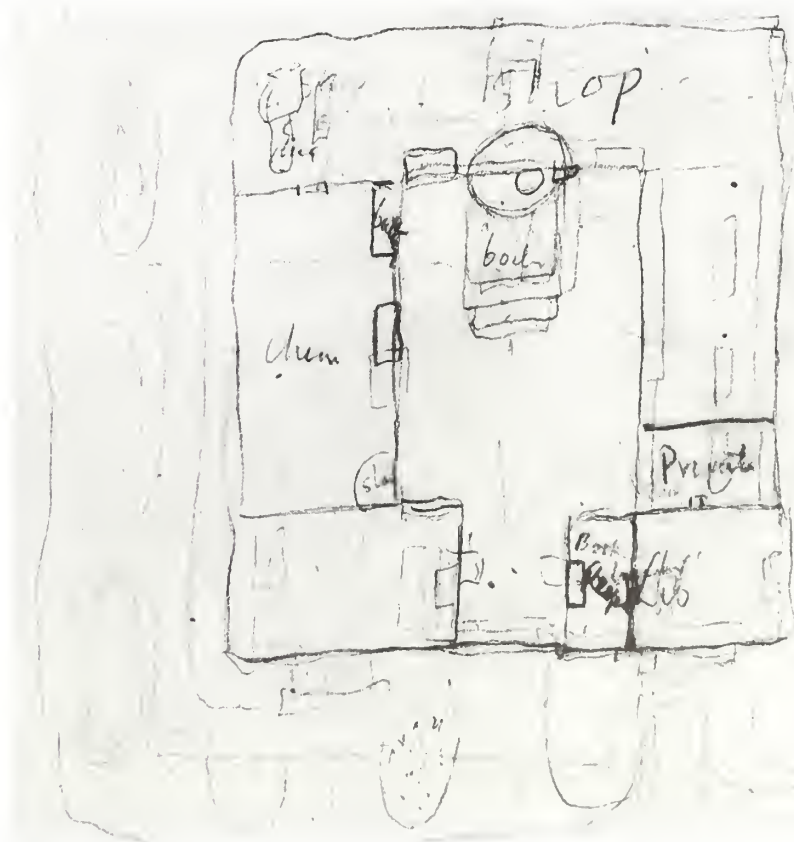
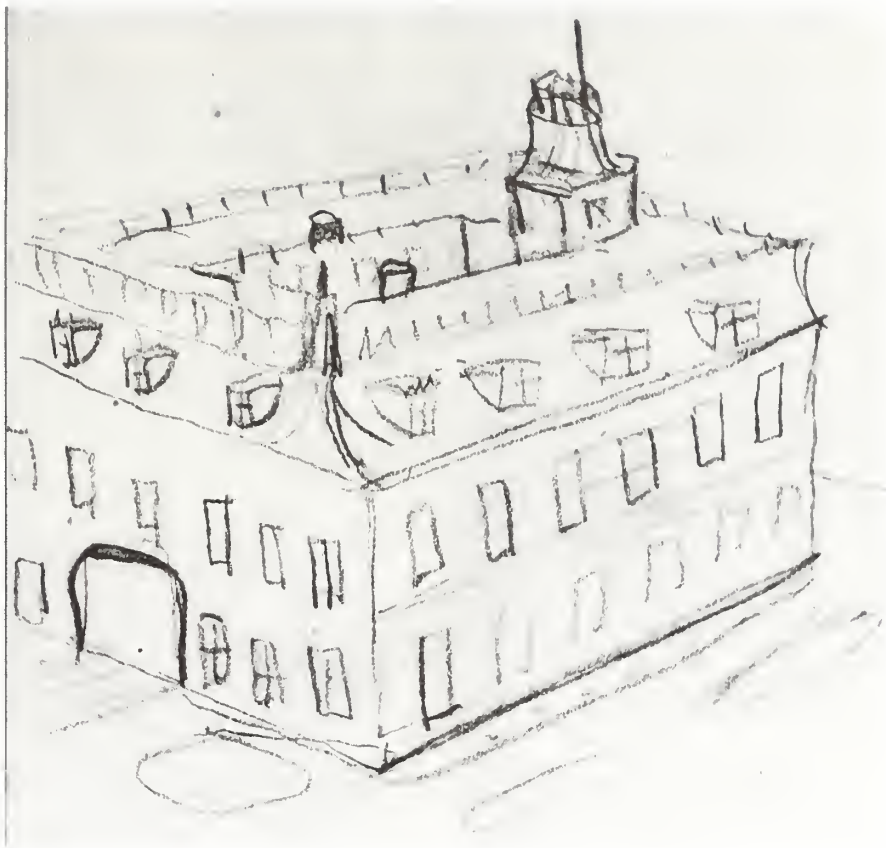
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Figure 2. Edison's sketches for new laboratory, 1886.



- Figure 3a. Edison's sketches showing preliminary room layout for the new laboratory, 1887.
- 3b. Edison's sketch showing proposed room layout at West Orange laboratory, 1887.

Figure 3a

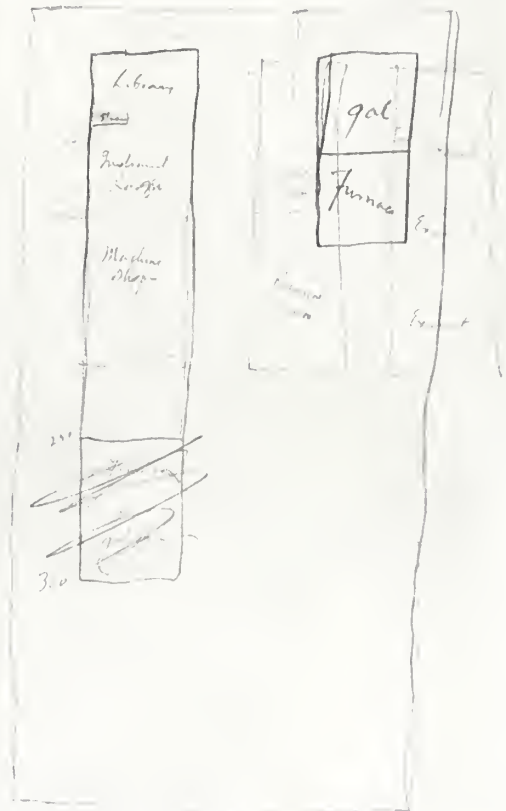
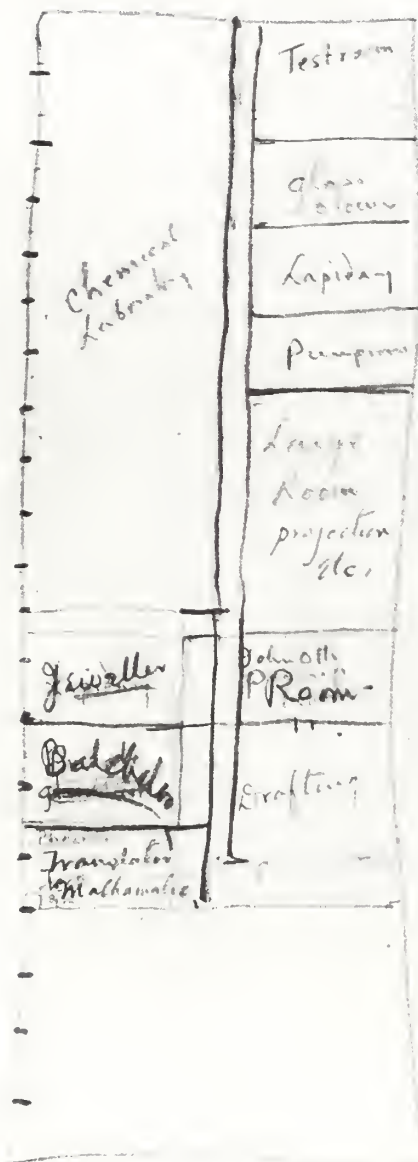
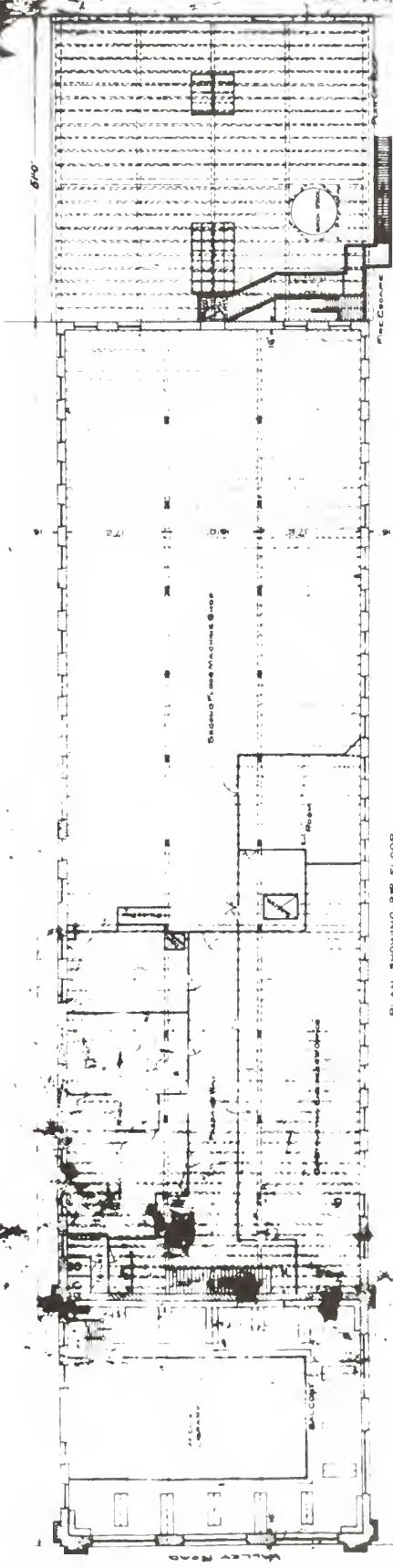
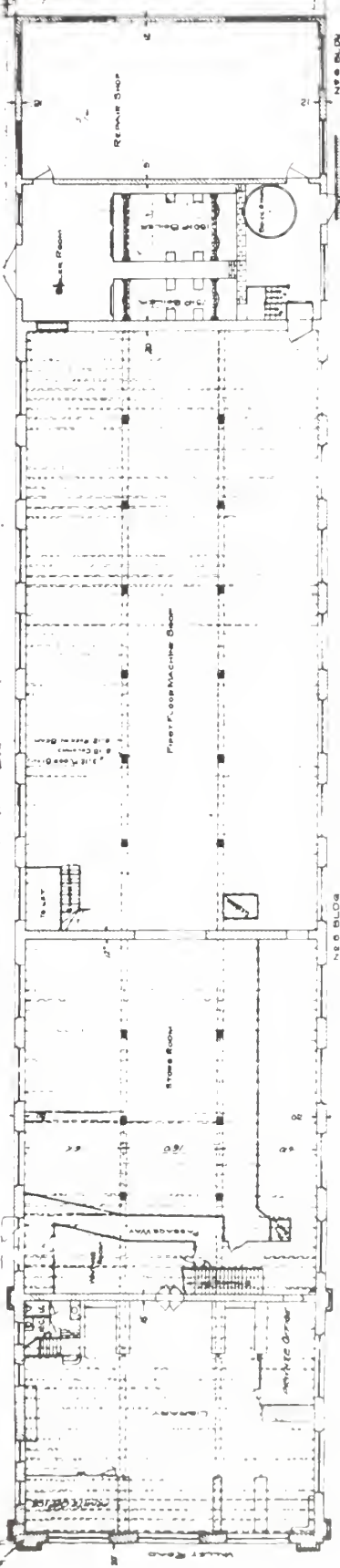


Figure 3b

Figure 4. Floor plan of first and second floors of Building 5,
November 26, 1916.



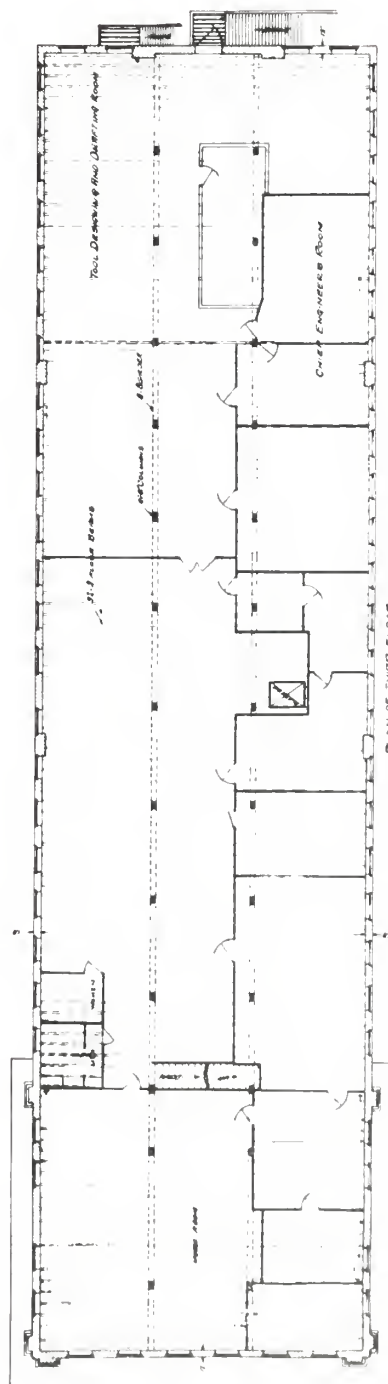
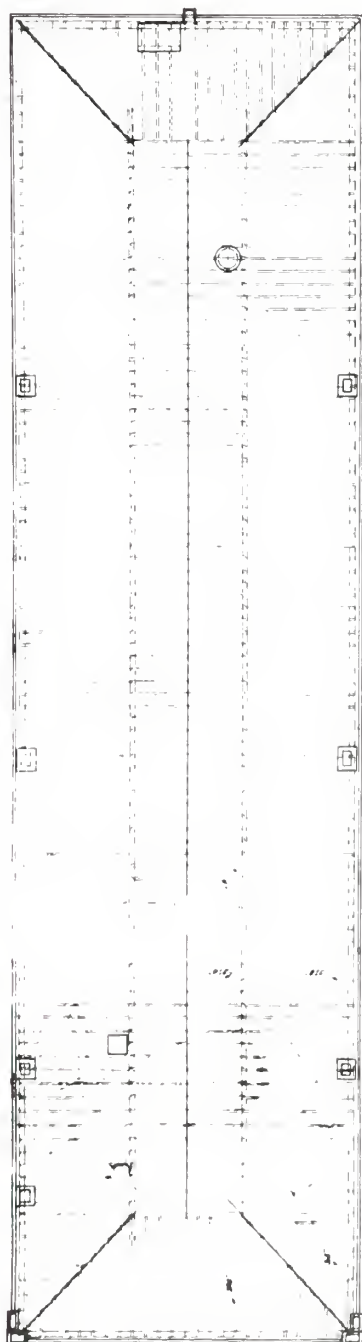
PLAN SHOWING 8TH FLOOR
LAKESIDE AVENUE



PLAN SHOWING 1ST FLOOR
LAKESIDE AVENUE

First & Second Floor Plans of 1885 and 1890-1898 Edison Laboratory
West Orange, N.J.
Scale 1/8" = 1'-0"
November 28, 1910
Prepared by
Construction Division

Figure 5. Floor plan of third floor and roof of Building 5,
December 29, 1916.



THIRD FLOOR & ROOF PLANS OF NBS BUILDING
EDISON LABORATORY.
WEST ORANGE, N. J.

SCALE 1"=10'
DRAWN BY JJC
DATE 12/28/66
DECEMBER 28, 1966
APPROVED BY *[Signature]*
CONSTRUCTION ENGINEER

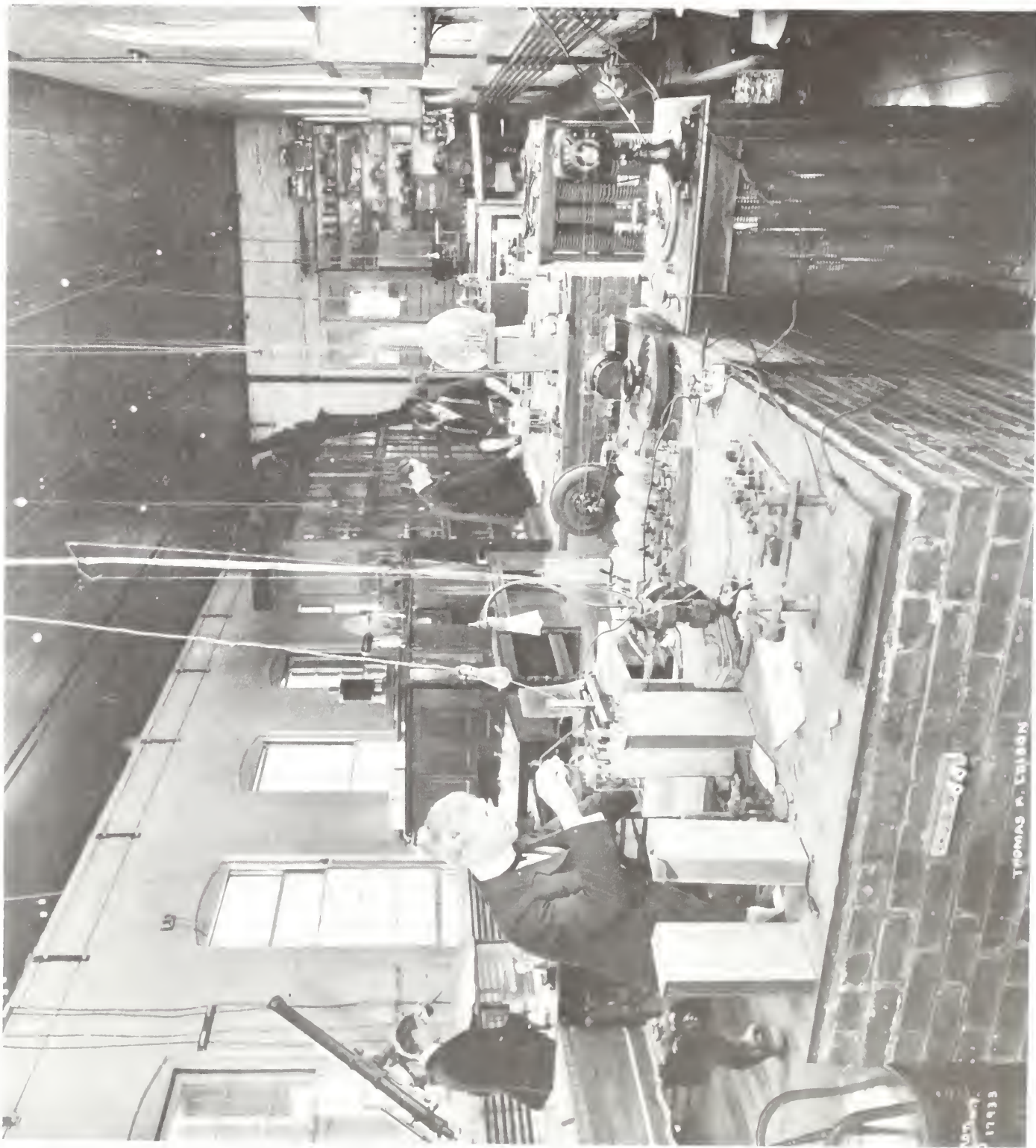
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Figure 6.

Galvanometer or physics laboratory in Building 1, looking south, ca.1890. Photograph by W.K.L. Dickson. Photo no. 10.385/1, neg. no. O-1061.



Figure 7. Physics laboratory in Building 1, looking south, ca.1904.
 Photograph by Joseph Byron. Neg. no. 17933.



THOMAS R. CHILSON

1933

Figure 8.

Charles Edison, Newman Holland, Nelson Durand, and an unidentified man in Building 1, looking north, February 1915. Photo no. 14.310/14, neg. no. 3457.



Figure 9. Newman Holland and unidentified men in Building 1, looking north, September 23, 1915. Photo no. 10.385/9, neg. no. 4065.

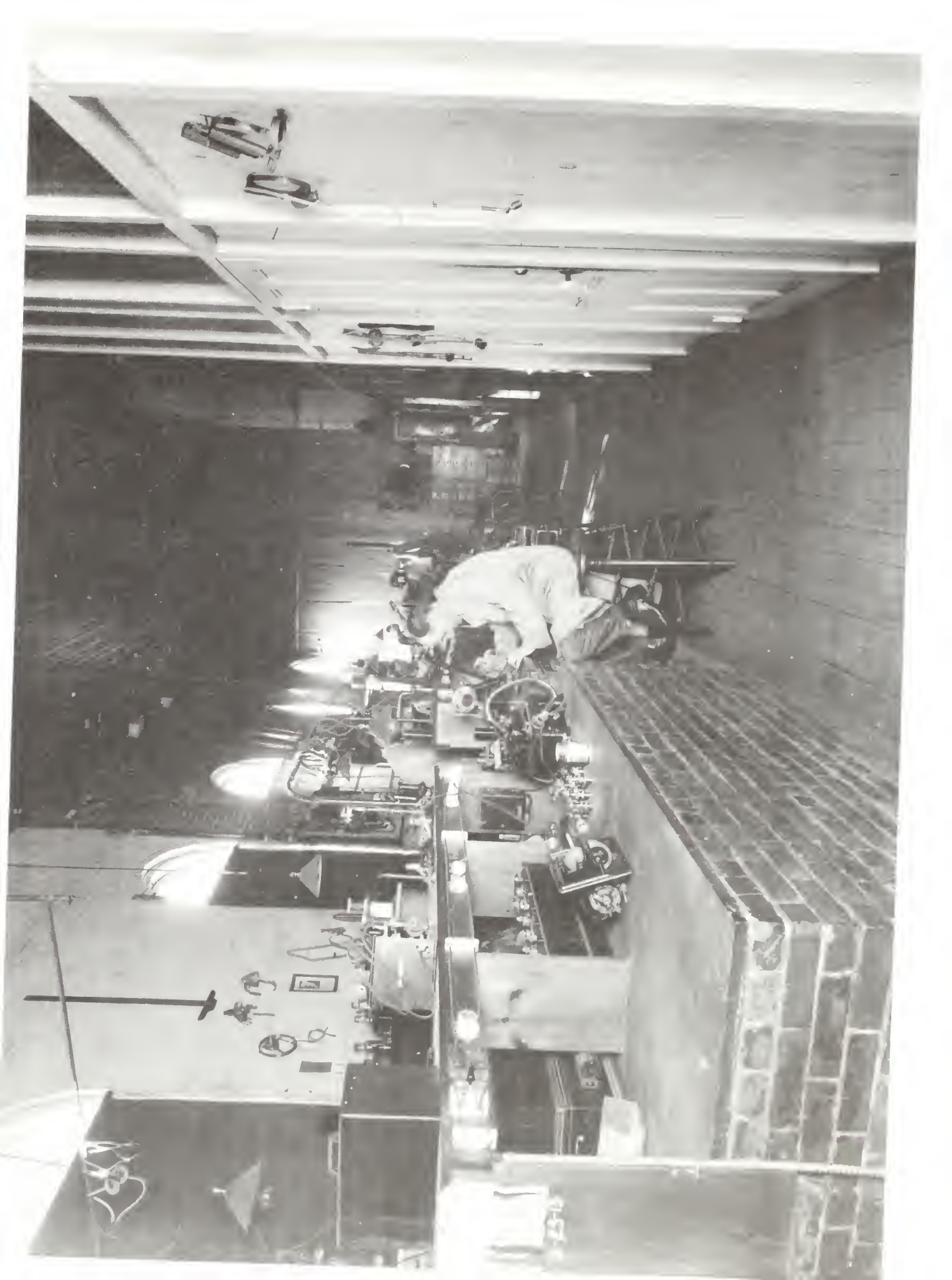


Figure 10. Building 1, left, with foundry to rear, date unknown. Photo no. 10.380/45, neg. no. 0-444.



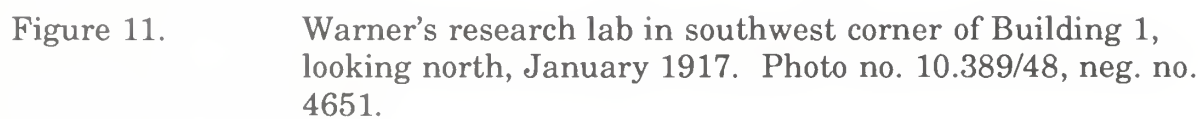


Figure 11. Warner's research lab in southwest corner of Building 1, looking north, January 1917. Photo no. 10.389/48, neg. no. 4651.

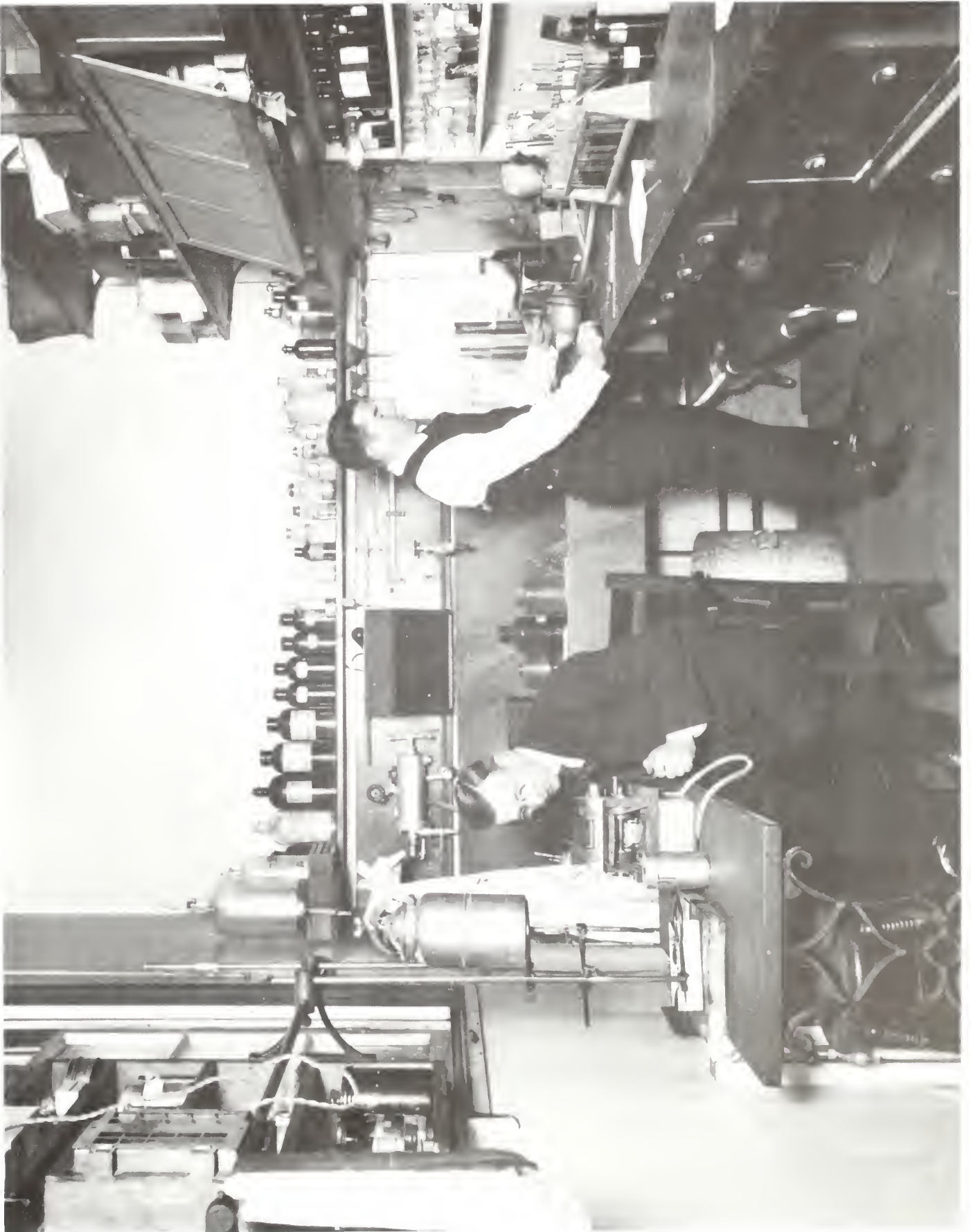


Figure 12. Paul D. Payne in Building 1, 1930. Album 16.



Paul D. Payne
at his desk
Thos. A. Edison Laboratories.
1930.



Paul D. Payne
in the Electrical Testing Lab.
1930.

Figure 13. Southwest corner of Building 1, looking north, September 1939.
Photograph by Ralph and Ralph. Photo no. 12.440/85, neg. no.
8081.



Figure 14. Building 1, looking north, September 1939. Photograph by Ralph and Ralph. Photo no. 12.440/75, neg. no. 8071.



8071

Figure 15. Building 1, looking north, September 1939. Photograph by Ralph and Ralph. Photo no. 12.440/74, neg. no. 8070.

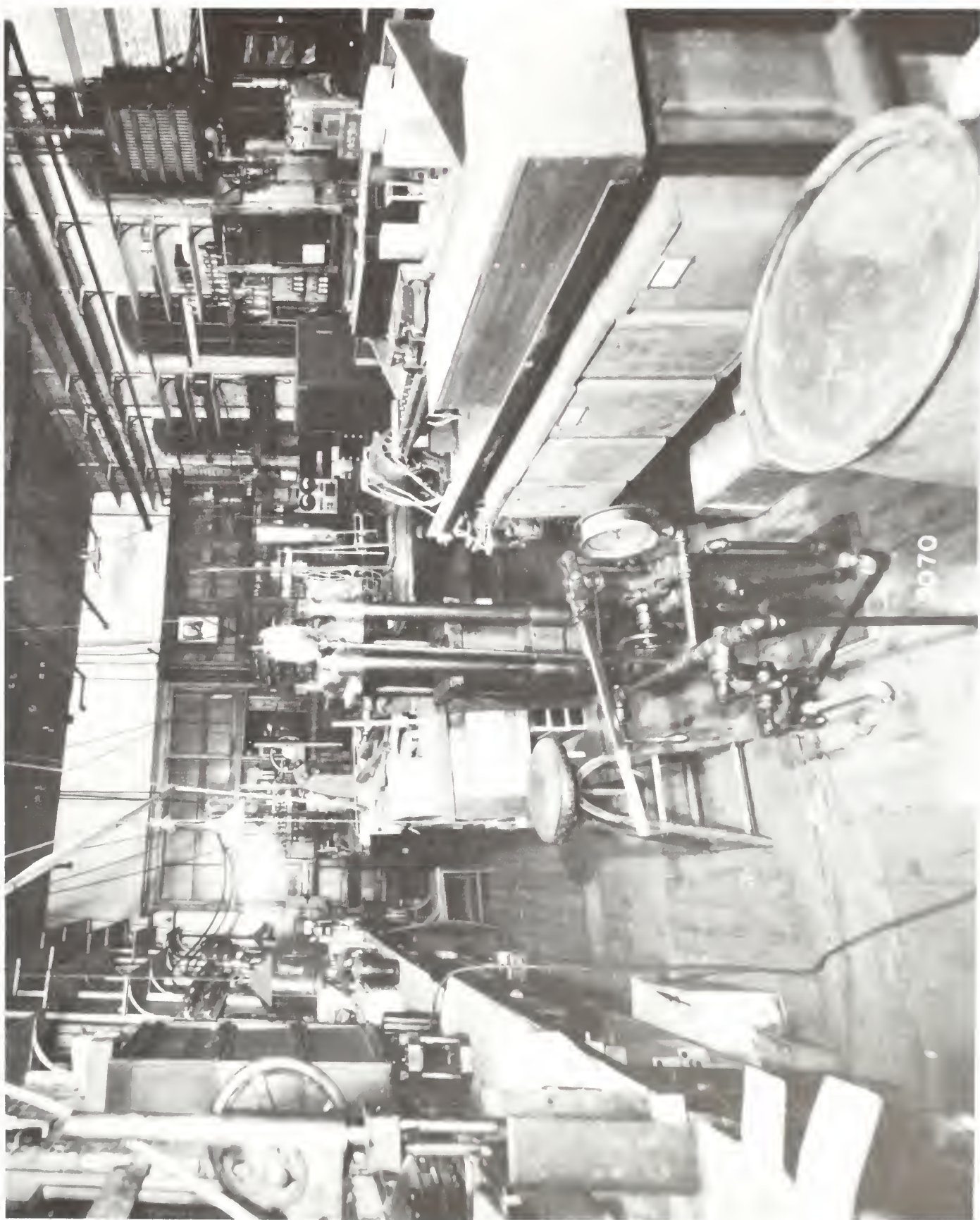


Figure 16. Chemistry laboratory, Building 2, looking north, ca.1890.
Photograph by W.K.L. Dickson. Photo no. 10.383/4, neg. no. 0-1062.



Figure 17. Fred Ott in chemistry laboratory, Building 2, looking south, ca.1904. Photograph by Joseph Byron. Photo no. 10.144/14, neg. no. 17918.



Dryden - V.
1918
21

Figure 18. Edison in Building 2, looking southeast, 1904. Photograph by Joseph Byron. Photo no. 14.720/18, neg. no. 8353.



THOMAS A. EDISON

18
1919
Bryon n.y.

Figure 19. Edison in Building 2, looking south, ca.1904. Album 7.



Figure 20. Edison in balance room, Building 2, looking southwest, 1904.
Photograph by Joseph Byron. Photo no. 14.720/17, neg. no.
6397.



Bryson
1923

PROPERTY OF THE BRYSON

Figure 21. Chemistry laboratory, looking northwest, ca.1904. Photo no. 10.144/13.



Bryon - r.
1921
13

Thomas - 1811

Figure 22. Edison in balance room, Building 2, ca.1905. Photo no. 14.720/47.



Figure 23. Edison in chemistry laboratory, Building 2, ca.1905. Photo no. 14.720/49.






Figure 24. Edison with Francis Arthur Jones in Building 2, 1906.
Photograph by Joseph Byron. Photo no. 14.720/53, neg. no.
8360.



Figure 25. Edison and assistant in Building 2, 1906. Photograph by Joseph Byron, neg. no. 8361.



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THOMAS LONDON

Figure 26. Edison in Building 2, 1906. Photograph by Joseph Byron.
Photo no. 14.720/14, neg. no. 8356.



Figure 27. Edison in Building 2, 1906. Photograph by Joseph Byron.
Photo no. 14.720/12, neg. no. 8355.



Figure 28. Edison in Building 2, looking south, February 1908.
Photograph by George Grantham Bain (?). Photo no. 14.720/20.



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T.A. EDISON IN HIS LABORATORY FEB. '09

201-9

Figure 29. Chemistry laboratory, Building 2, looking north, 1910.
Standing are: Rosenstein, Ludwig Ott, Goldstein, T.D.
Greenlee (in hat), Christian Christiansen, Paul S. Lavery, and
H.W. Lancaster. Photo no. 10.383/5, neg. no. 6988.



Figure 30. Edison in Building 2, ca.1910. Photograph no. 14.720/21, neg. no. 6986.



Figure 31. Edison at his worktable in the chemistry laboratory, looking north, Building 2. Photograph by Joseph Byron, ca.1906. Album 7.



Figure 32.

Chemistry laboratory, Building 2, looking north, ca.1910.
Charles Dally is second from right. Photo no. 10.383/6, neg. no.
6983.



Figure 33. Chemistry laboratory, February 24, 1911. Photo no. 14.720/26.



Figure 34. Chemistry laboratory, Building 2, looking north, September 1915. Photo no. 10.383/8, neg. no. 4062.



Figure 35. Edison's table, chemistry laboratory, Building 2, looking north, 1915-1917. Photo no. 10.383/9.



Figure 36. Edison in chemistry laboratory, Building 2. May 17, 1919.
Photo no. 14.720/41.



Figure 37. Chemistry laboratory, Building 2, looking north, June 1928.
Photo no. 10.383/2, neg. no. 5511D.

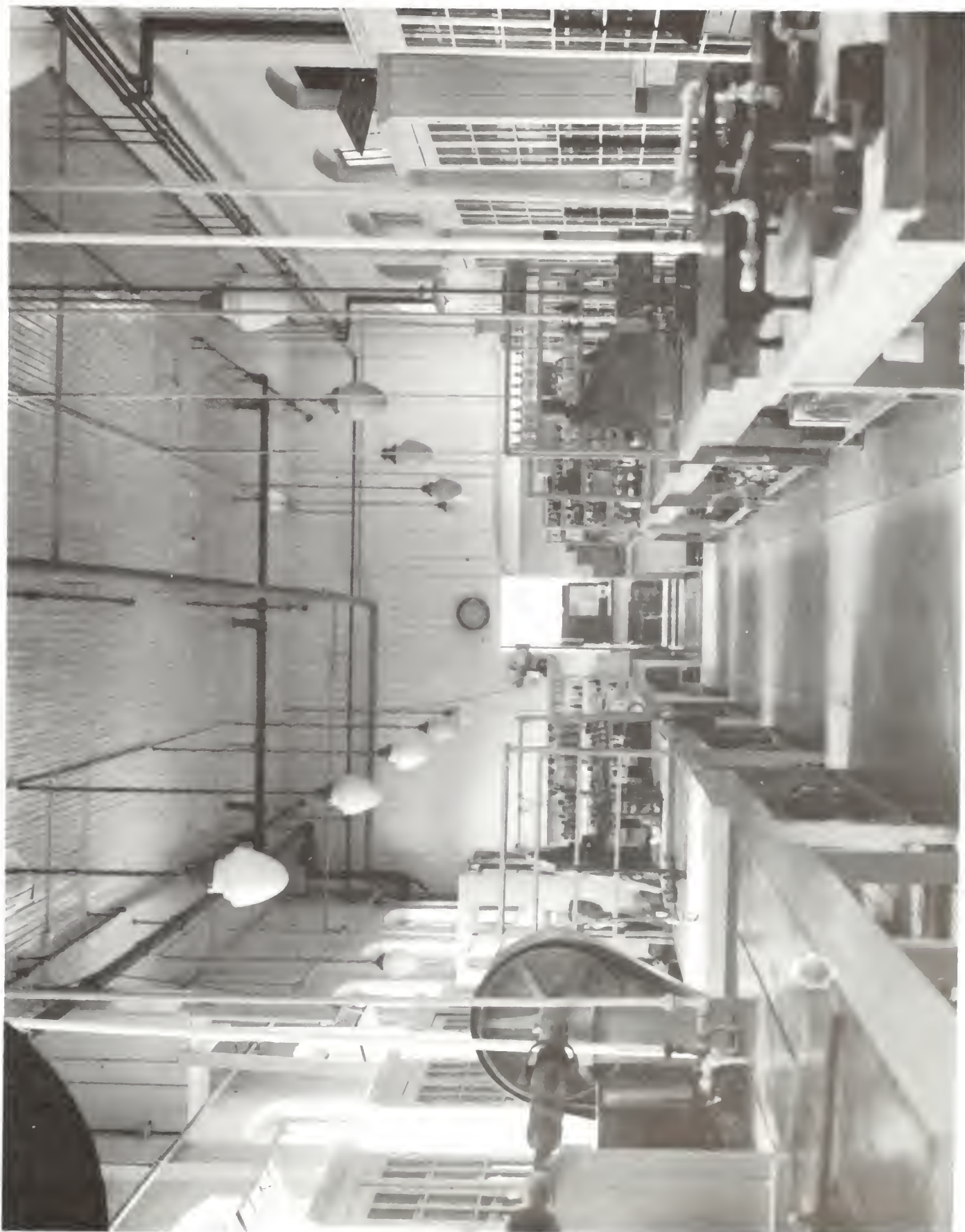


Figure 38. Edison with George Hart in chemistry laboratory, Building 2, looking north, December 1929. Photo no. 14.720/36, neg. no. 5664B.

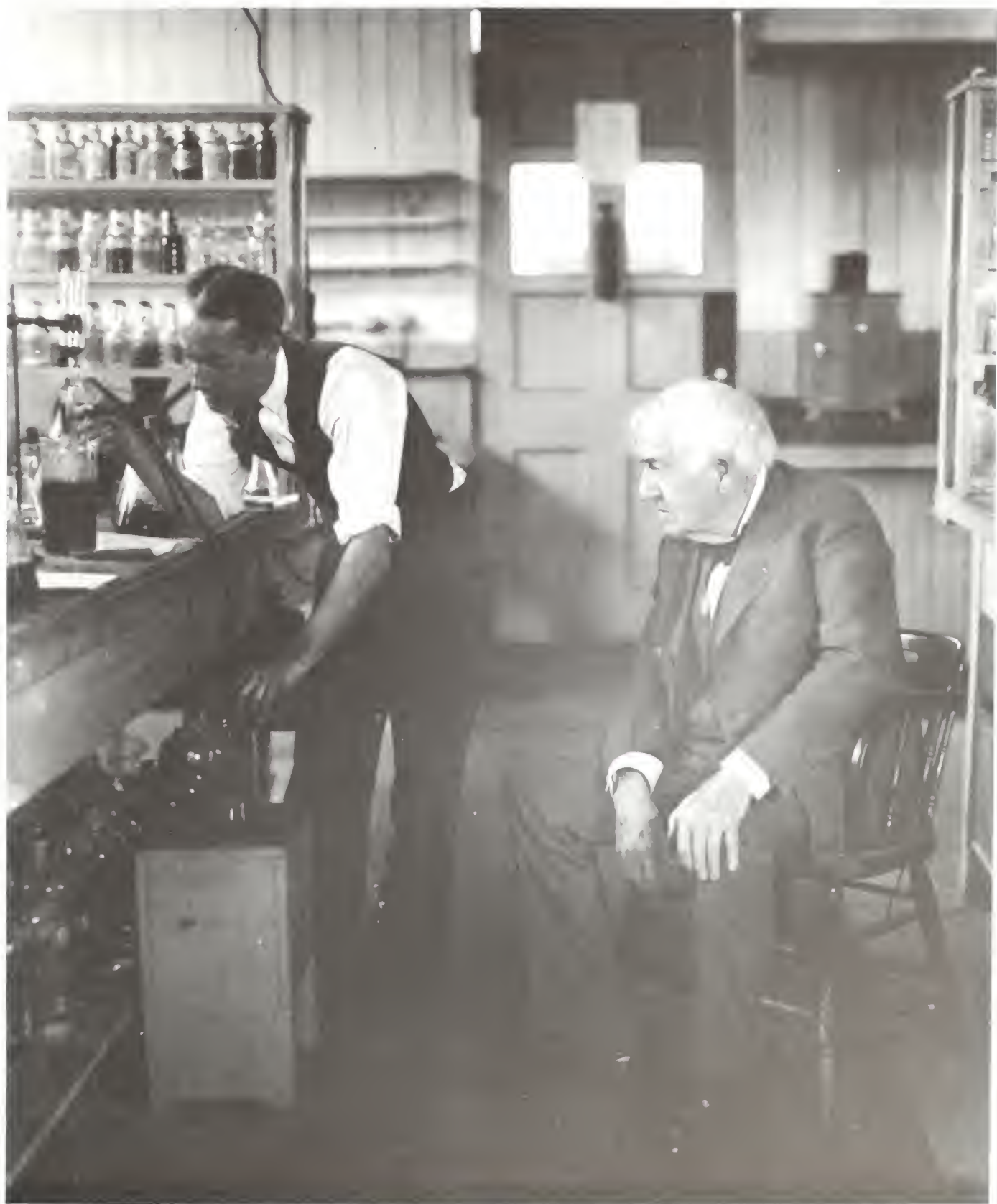


Figure 39. Edison's desk in chemistry laboratory, Building 2, ca.1930.
Album 16.

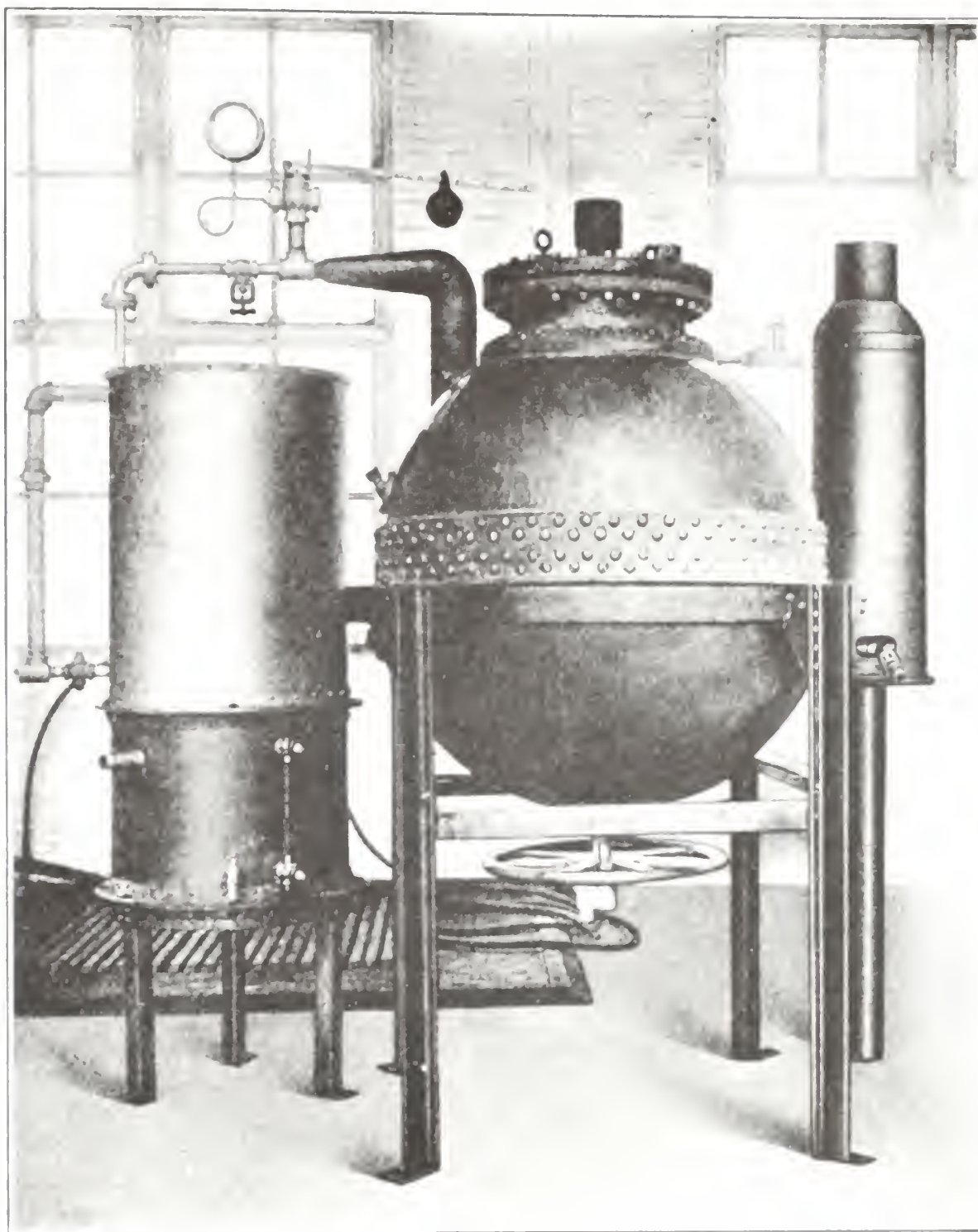
Desk of Mr. Edison
in the Chemical Room.
Building No 2.



Figure 40. Chemistry laboratory, Building 2, looking north, July 1954.
Photo no. 12.440/423.



Figure 41. Phenol condenser. In *Synthetic Resins and their Plastics*, by Carleton Ellis (New York: The Chemical Catalog Company, Inc., 1923).



Courtesy of I. O. Koven & Brother.

FIG. 4. Digester adapted for the preparation of phenol-formaldehyde resins. It is steam jacketed and provided with a large valve at the bottom for drawing off the product. At the right is shown a superheater for steam. At the left is a condenser so constructed as to permit distillation in vacuo. The manhole at the top of the digester is an essential feature. Digestors may be made of steel and may be cylindrical instead of spherical.

Figure 42. Pattern shop, Building 3, looking south, ca.1890. Photography by W.K.L. Dickson. Photo no. 10.382/1, neg. no. 0-1064.

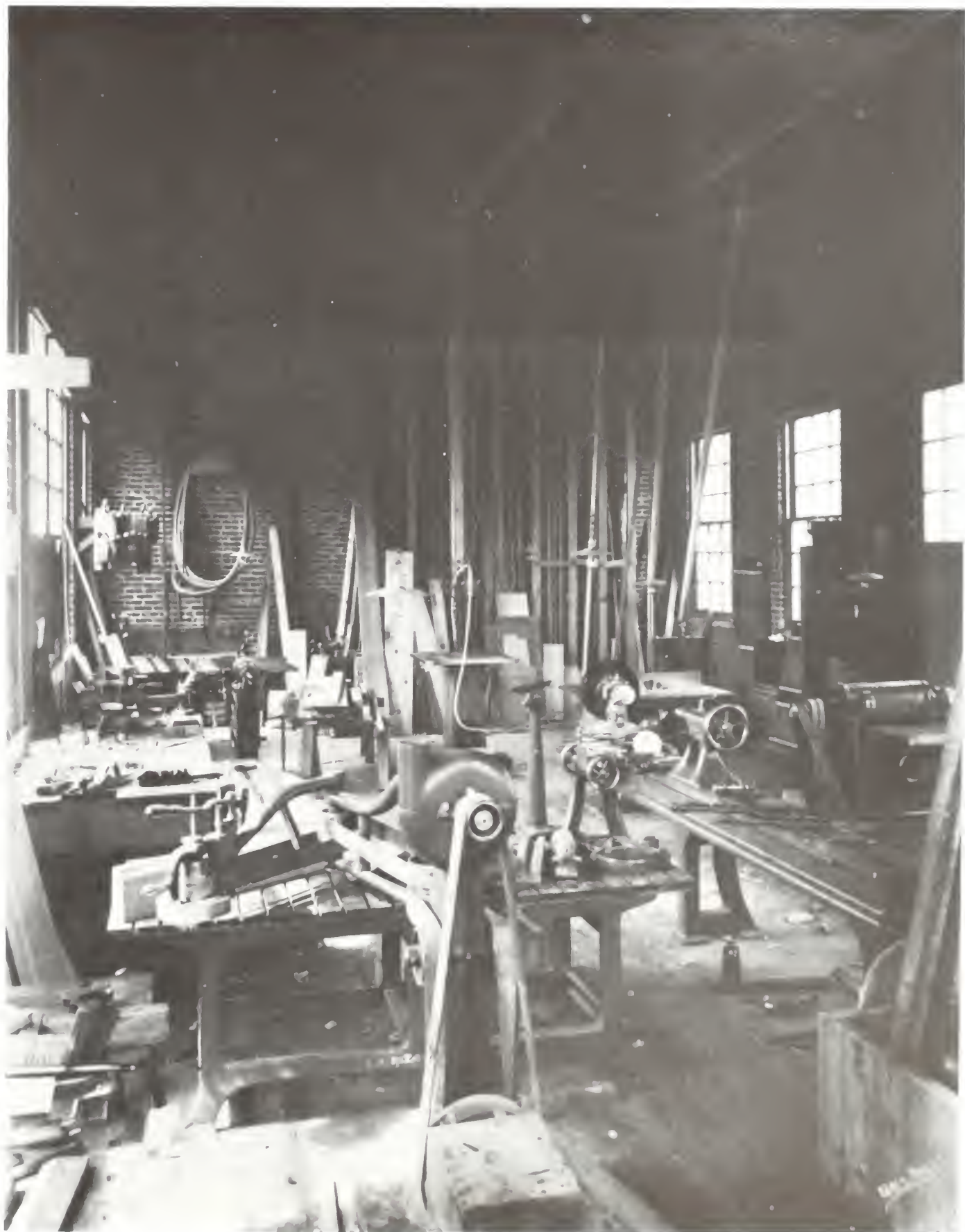


Figure 43. Pattern shop, Building 3, looking north, January 1917. Photo no. 10.382/3, neg. no. 4636A.



Figure 44.

Ore milling equipment, probably in the metallurgical laboratory, Building 4. From *The Iron Age* magazine 41, December 6, 1888.

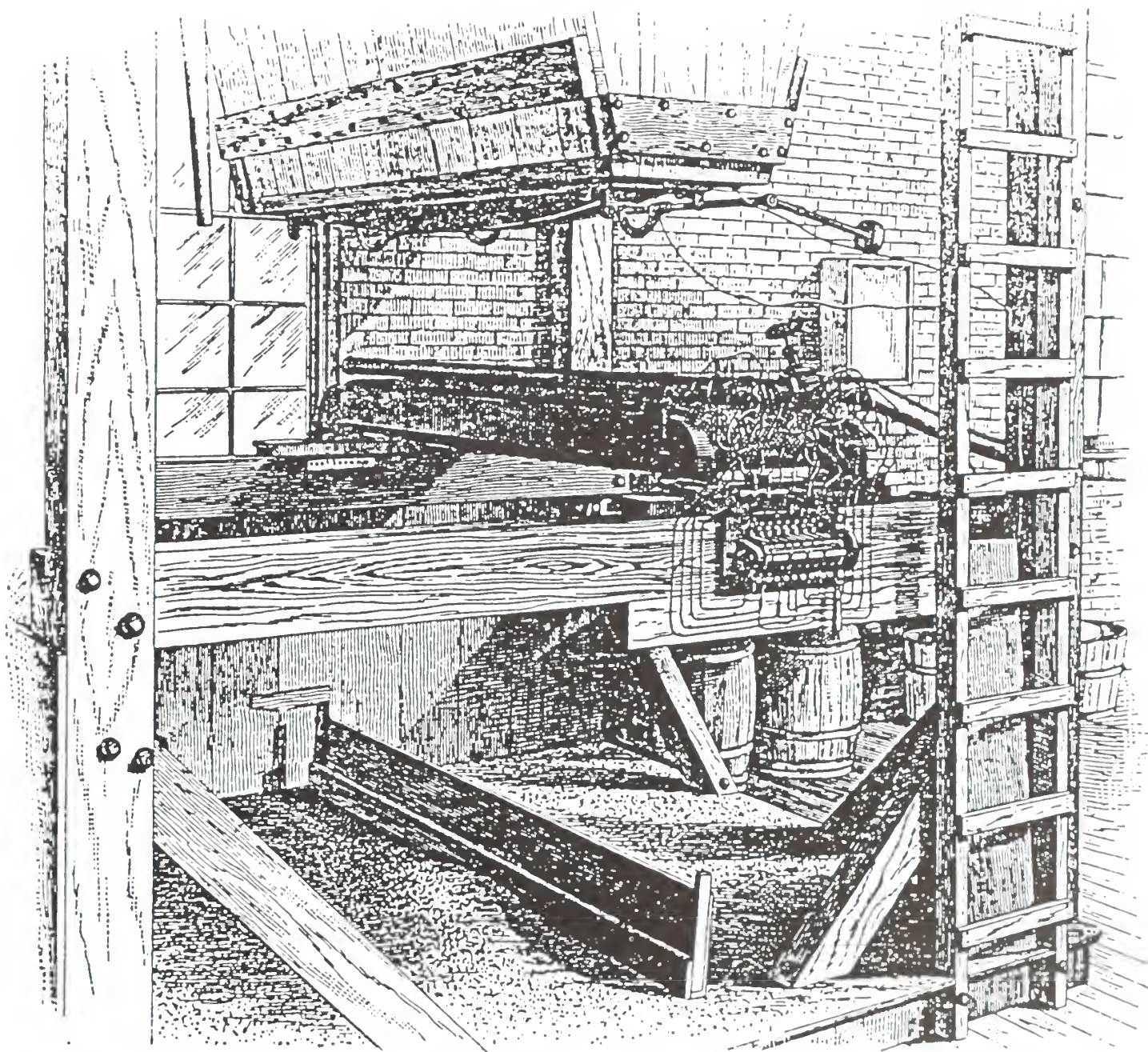


Figure 6:

Blower Separator, as illustrated in The Iron Age 41(6 December 1888). 847. The pipe above the bar magnet is the air current outlet.

Figure 45. Edison in metallurgical laboratory, Building 4, no later than December 1893. Photograph by W.K.L. Dickson. Album 12. Photo no. 14.720/4, neg. no. 9103.



Figure 46.

The "Insomnia Squad" in Building 4. Standing (left to right): Ed McGlynn, Bob Spahle, and Archie Hoffman. Seated (left to right): Johnny La Monte, Billy Fulton, Sam Moore, and Edison, 1912. Photo no. 14.225/4, neg. no. 1037-F.



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Figure 47. Edison with Charles Schwab at entrance to Building 5, 1912. William Meadowcroft is in the back row, far left, and Miller Reese Hutchison is in the first row, sixth person from the right. No classification number.



Figure 48.

Edison with Senator B.R. Tillman at entrance to Building 5, June 10, 1915. Back row left to right: William Meadowcroft, Sallie Mae Tillman, Mina Edison, W.P. Hutchison, Nancy Hill Godshall, Madeline Edison Sloane, Miller Reese, Hutchison. Front row left to right: Lt. Com. Louis C. Richardson, Mrs. Tillman, Edison, Senator B.R. Tillman. No classification number.



6-10-15

Figure 49. Fred C. Devonald in library, Building 5, 1890-1893. Photo no. 10.133/1, neg. no. 01485.



Figure 50. Library, Building 5, ca.1895. Photograph by W.K.L. Dickson.
Photo no. 10.387/6, neg. no. 07985.



Figure 51. Library, Building 5, date unknown. Photo no. 10.387/7, neg. no. 07987.



Figure 52. Edison, Francis Upton, John F. Randolph, and unidentified man in the library, Building 5, 1896. Photo no. 14.225/244.



Figure 53. Edison in the library, Building 5, ca.1905. Photograph by Joseph Byron. Photo no. 14.220/7.



Figure 54.

Edison and two unidentified men in library, Building 5, date unknown. Photo no. 14.225/288.



Figure 55. Fireplace, north end of library, Building 5, date unknown.
Album 7.



Figure 56. Edison in library, Building 5, October 1903. Photo no. 14.220/16.



Figure 57. Edison in library, Building 5, 1903. Photo no. 14.220/11.





Figure 58. Edison at desk in library, Building 5, date unknown. Photo no. 14.220/96.



Figure 59. Edison's cot, southeast corner of library, Building 5, 1905.
Courtesy of the Library of Congress, LC-USZ62-40394.



Figure 60.

Edison in library with motion picture manufacturers, licensees of Motion Picture Patents Company, Building 5, December 19, 1908. Seated clockwise from Edison: Jeremiah J. Kennedy, Henry N. Marvin, Jacques A. Berst, George K. Spoor, William T. Rock, Peter Huber, Sigmund Lubin, Albert E. Smith, J. Stuart Blackton, William Siwghi, Samuel Long Kalem, William N. Selig, George Kleine, Frank Merion, Frank L. Dyer. Photograph by G. Kleine. Photo no. 14.820/17.



Figure 61. Edison's desk, library, Building 5, 1911. Photo no. 10.387/24, neg. no. 01193-68.

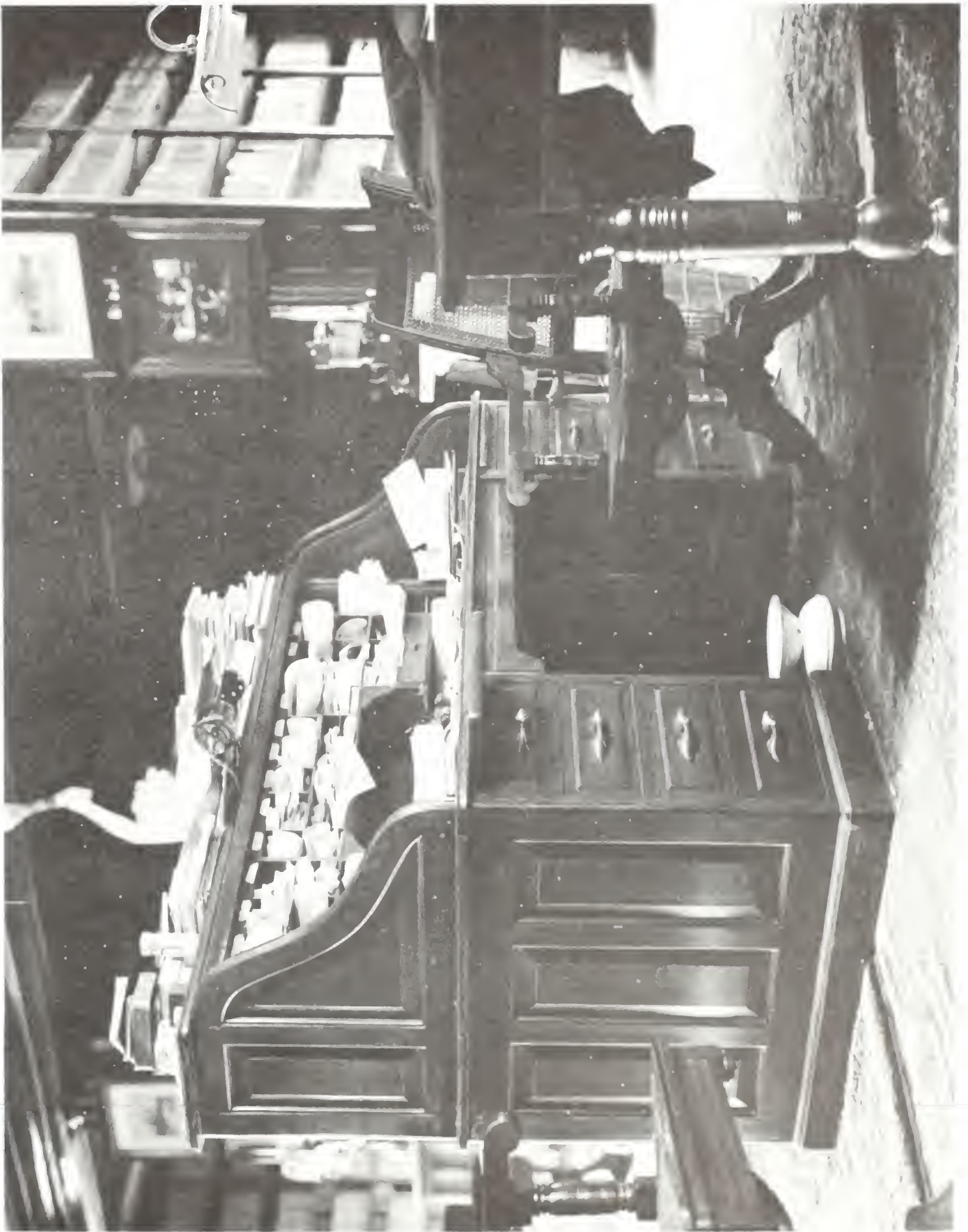


Figure 62. Library, Building 5, looking north, 1911. Photo no. 10.387/11.



Figure 63.

Edison at desk, library, Building 5, November 15, 1911. Photo no. 14.645/17, neg. no. 539.



Figure 64.

Library, Building 5, looking southwest, 1912. Photo by [?]
Lueder. Photo no. 10.387/12, neg. no. 07986.



Figure 65. Library, Building 5, looking southeast, ca.1912. Photo no. 10.387/13, neg. no. 2512.



Figure 66. Unidentified man, William Meadowcroft, and Walter S. Mallory in library, Building 5, 1911. Album 10.



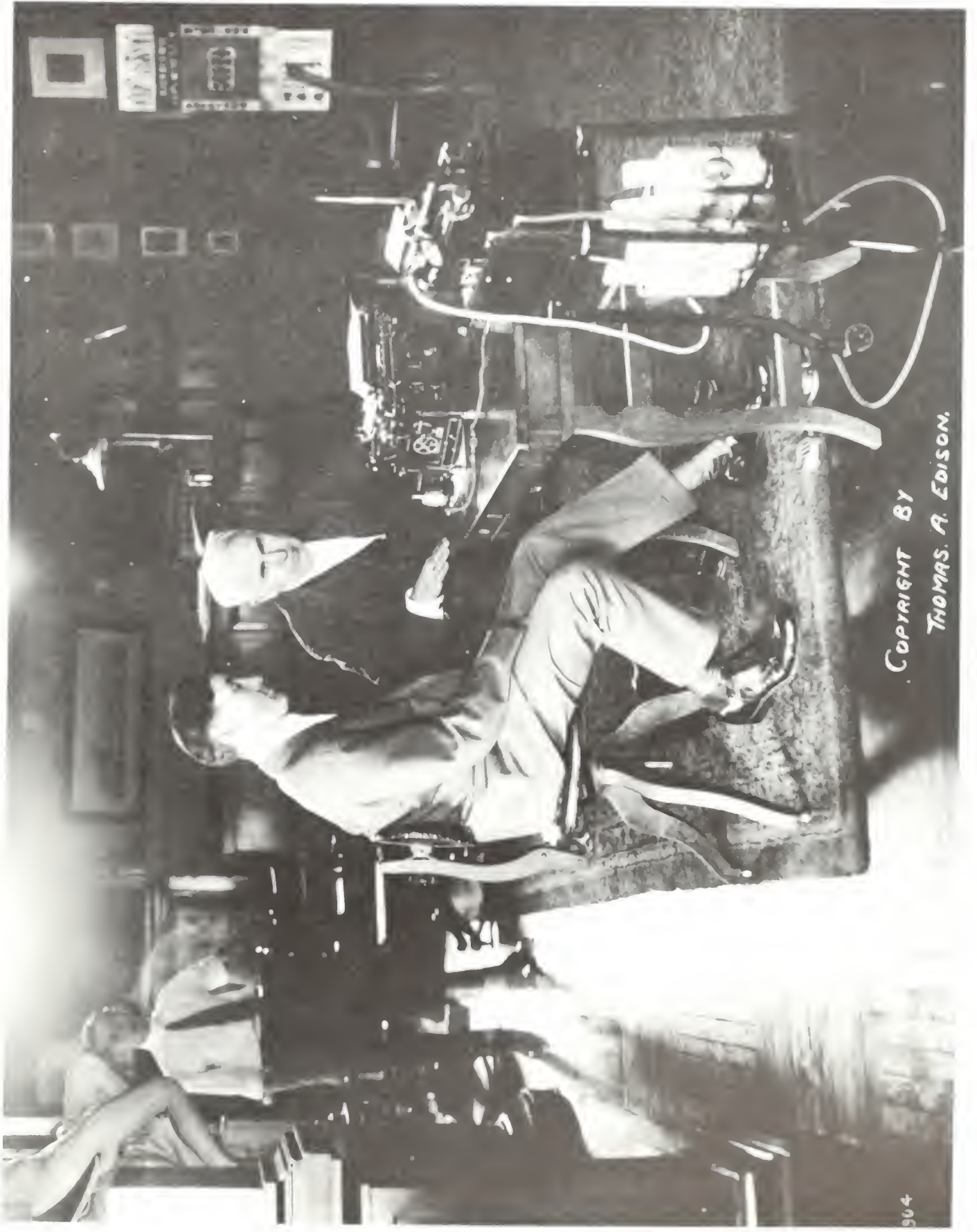
Figure 67. Library, Building 5, April 27, 1912. Photo no. 14.820/7.



Figure 68. Copper cube, library, Building 5, 1912. Photo no. 10.387/8.



Figure 69. Edison and E.C. Barnes in the library, Building 5, July 20, 1914. Photo no. 14.225/260, neg. no. 2904.



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Figure 70. Edison in library, Building 5, ca.1914. Photo no. 14.220/101.



Figure 71. Edison with Robert Bachman in the library, Building 5, January 1, 1915. Photo no. 14.655/13.



Figure 72.

Happy New Year from the Greek Employees, library, Building 5,
January 2, 1915. Photo no. 10.387/15, neg. no. 3084.



Figure 73.

Edison in the library, Building 5, January 16, 1915. "For several months after the fire the library was filled with boards showing the progress of the work of all departments. Mr. Edison can be seen looking them over." Photo no. 14.228/38, neg. no. 3424.

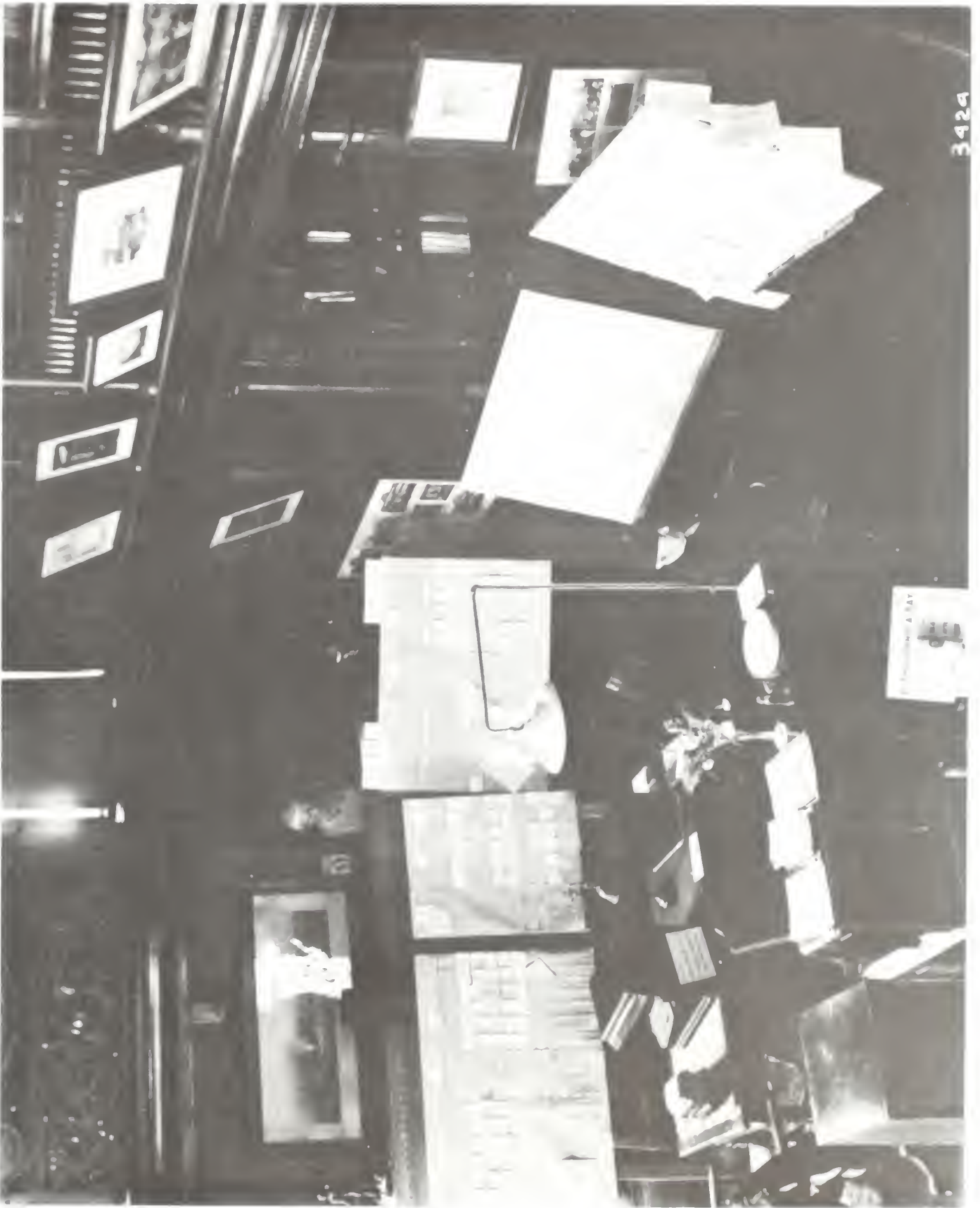


Figure 74.

Edison and E.C. Barnes in the library, Building 5, July 12, 1915. Photo no. 14.225/261, neg. no. 3883.



Figure 75.

Edison Day, fixed up for transcontinental telephone talk with Mr. Edison, library, Building 5, October 21, 1915. Photo no. 14.387/14, neg. no. 4027.

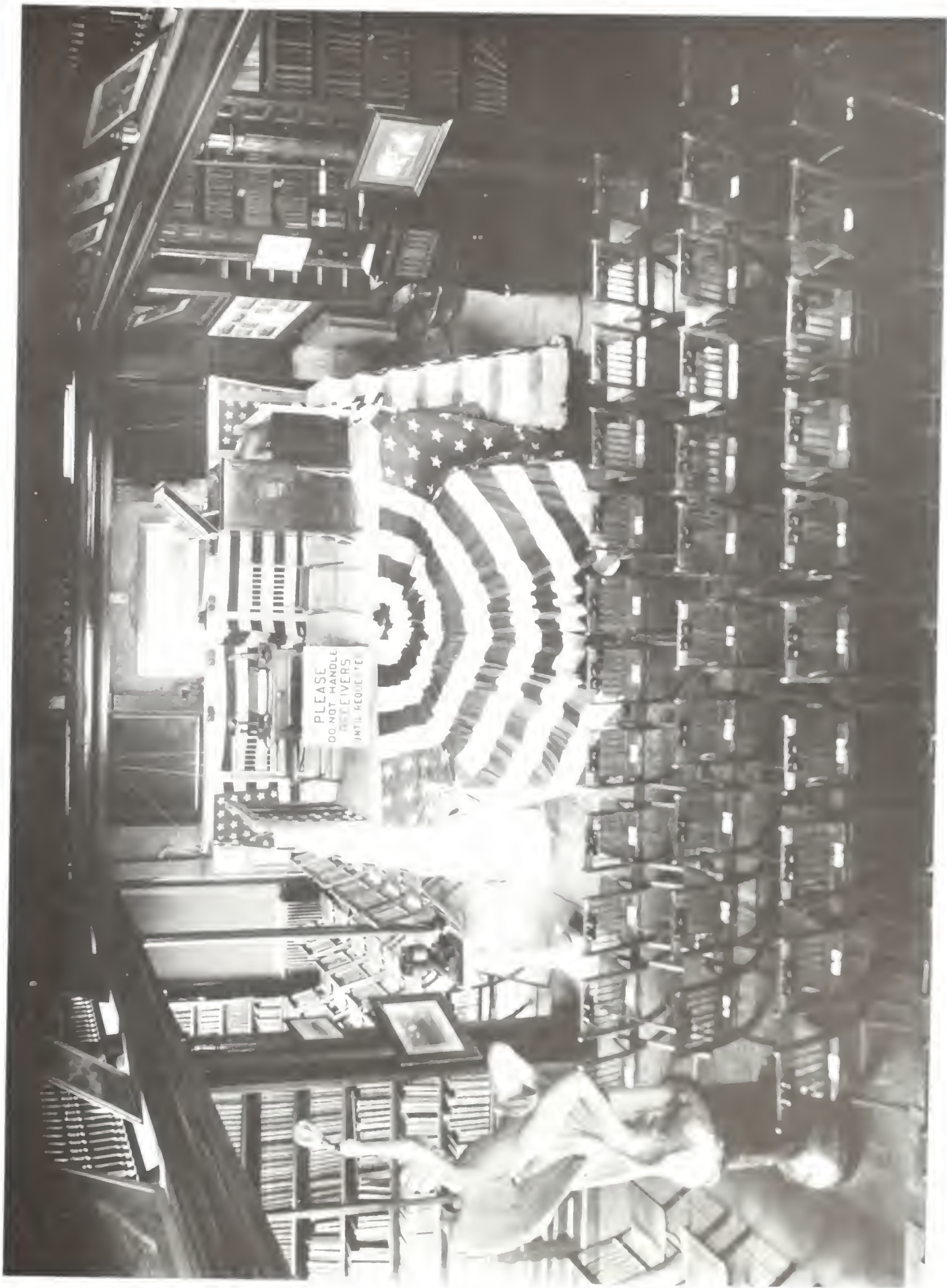


Figure 76. Edison Day, library, Building 5, October 21, 1915. Photo no. 10.387/16, neg. no. 4030.

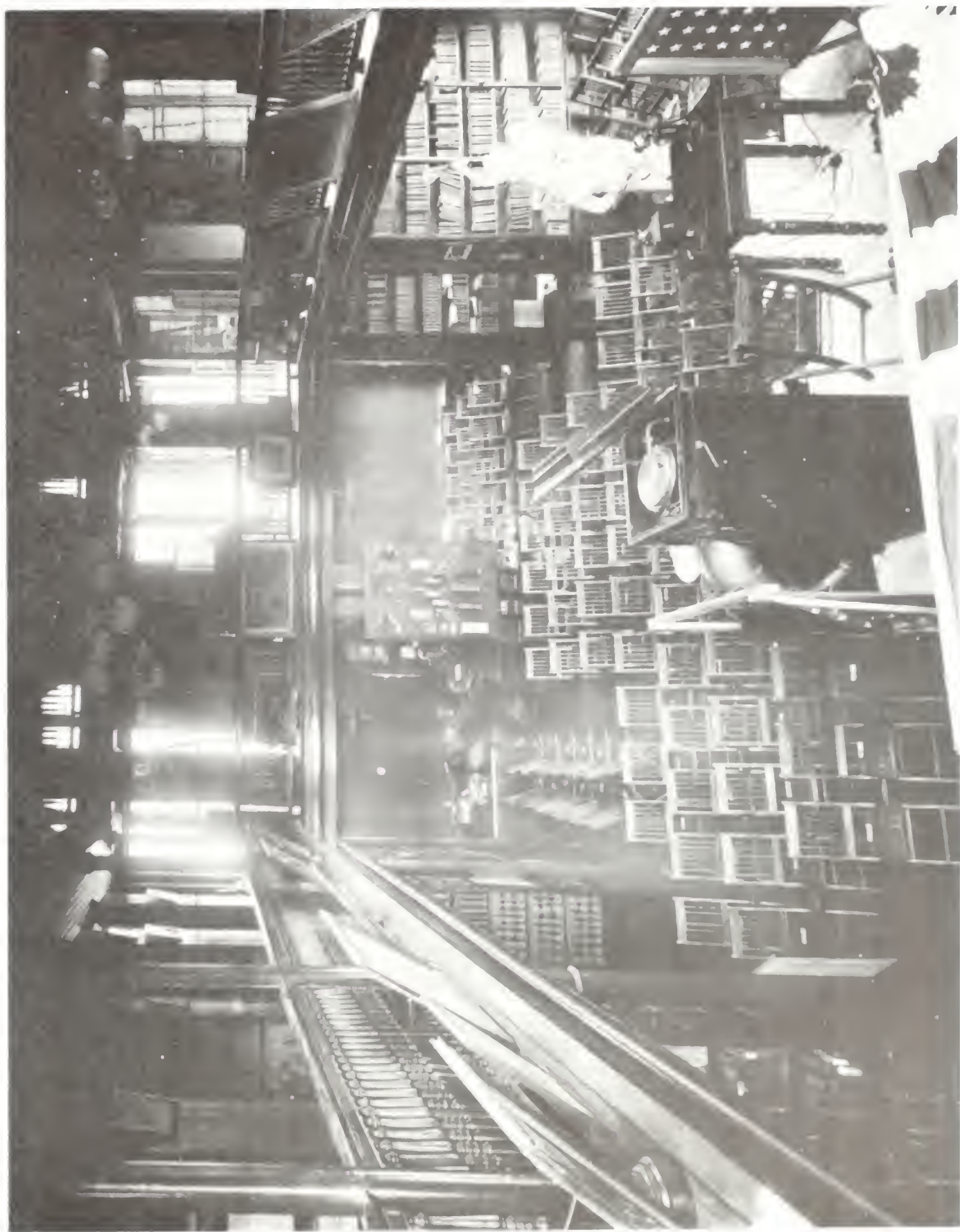


Figure 77.

Edison Day, library, Building 5. Chairs equipped with telephone receivers, set up in library for transcontinental telephone conversation with Edison. October 21, 1915. Photo no. 10.387/17, neg. no. 4028.



Figure 78. Edison Day, library, Building 5, October 21, 1915. Photo no. 10.387/18, neg. no. 4029.



Figure 79.

Left to right: Henry Altengarten, unidentified man, William H. Meadowcroft, at Meadowcroft's desk, southwest corner in the library, Building 5, January 22, 1917. Photo no. 10.120/27, neg. no. 4659.



Figure 80.

Charles Edison in the library, Building 5, northwest corner,
1917-1918. Photo no. 14.310/29



Figure 81. Edison in the library, Building 5, 1918. Photo no. 14.220/52.



Figure 82. Edison in the library, Building 5, 1918. Photo no. 14.610/16, neg. no. 5939B.



Figure 83. Edison and Charles Edison in the library, Building 5, 1920.
Photo no. 14.310/11.



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Figure 84.

Edison, his wife Mina Edison, Charles Edison, his wife Carolyn Edison, and Thomas Edison Jr. in the library on Edison's 73rd birthday, Building 5, February 11, 1920. Photo no. 14.110/18, neg. no. 5215F.



Figure 85. Edison and sons in the library, Building 5, February 11, 1920.
Photo no. 14.110/23.

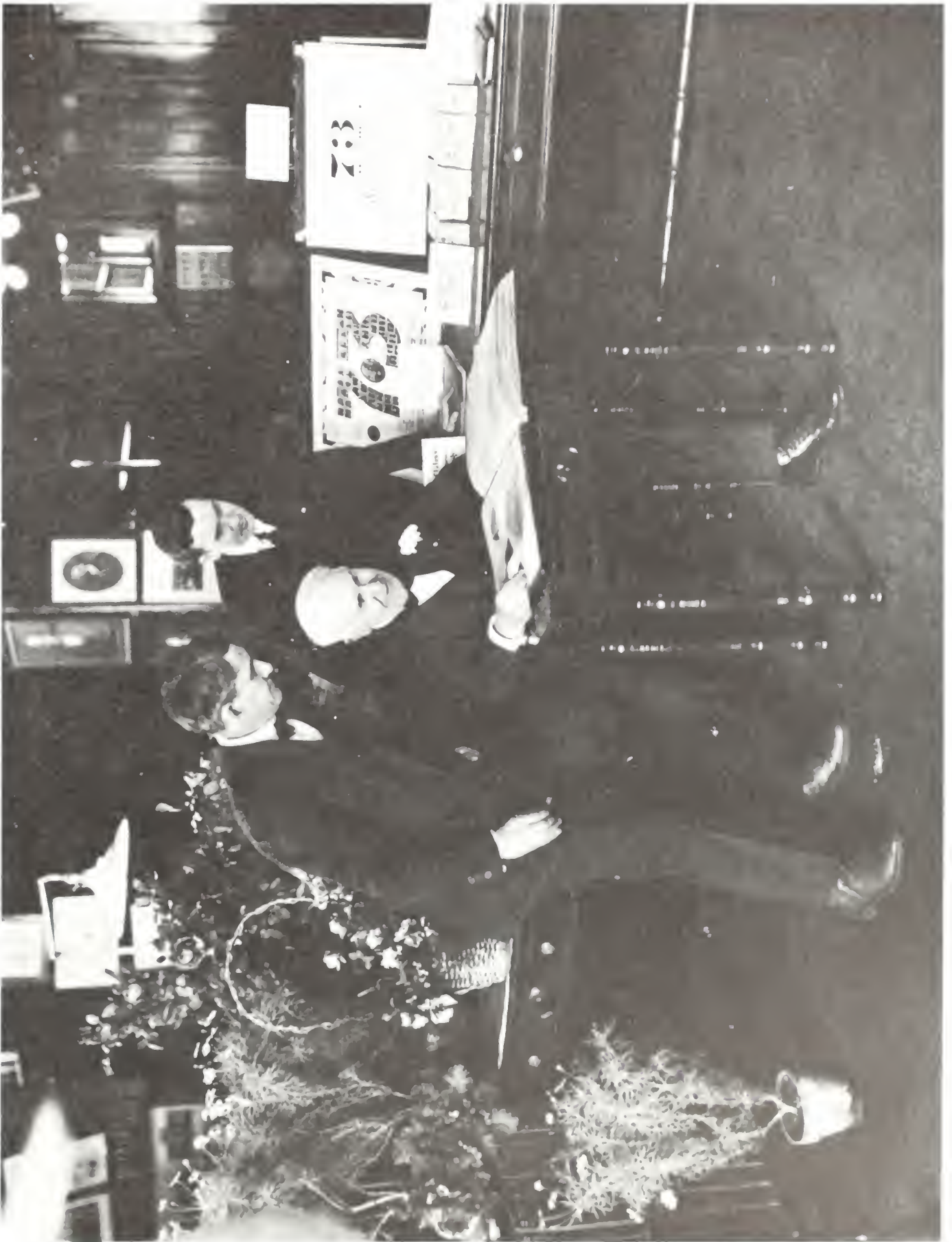


Figure 86. Edison at desk, library, Building 5, August 13, 1930. Photo no. 14.220/98, neg. no. 5947.



Figure 87. Edison and Charles Edison in the library, Building 5, date unknown. Photo no. 14.310/40.



Figure 88. Edison's coffin, from first balcony of library, Building 5, October, 1931. Photo no. 14.500/19.



Figure 89. Library, Building 5, 1936. Photo no. 12.440/356, neg. no. 6430.



Figure 90. Stock room, Building 5, looking west, 1888-1890. Photograph by W.K.L. Dickson. Photo no. 10.389.



Stock Room
Edison's Orange Laboratory

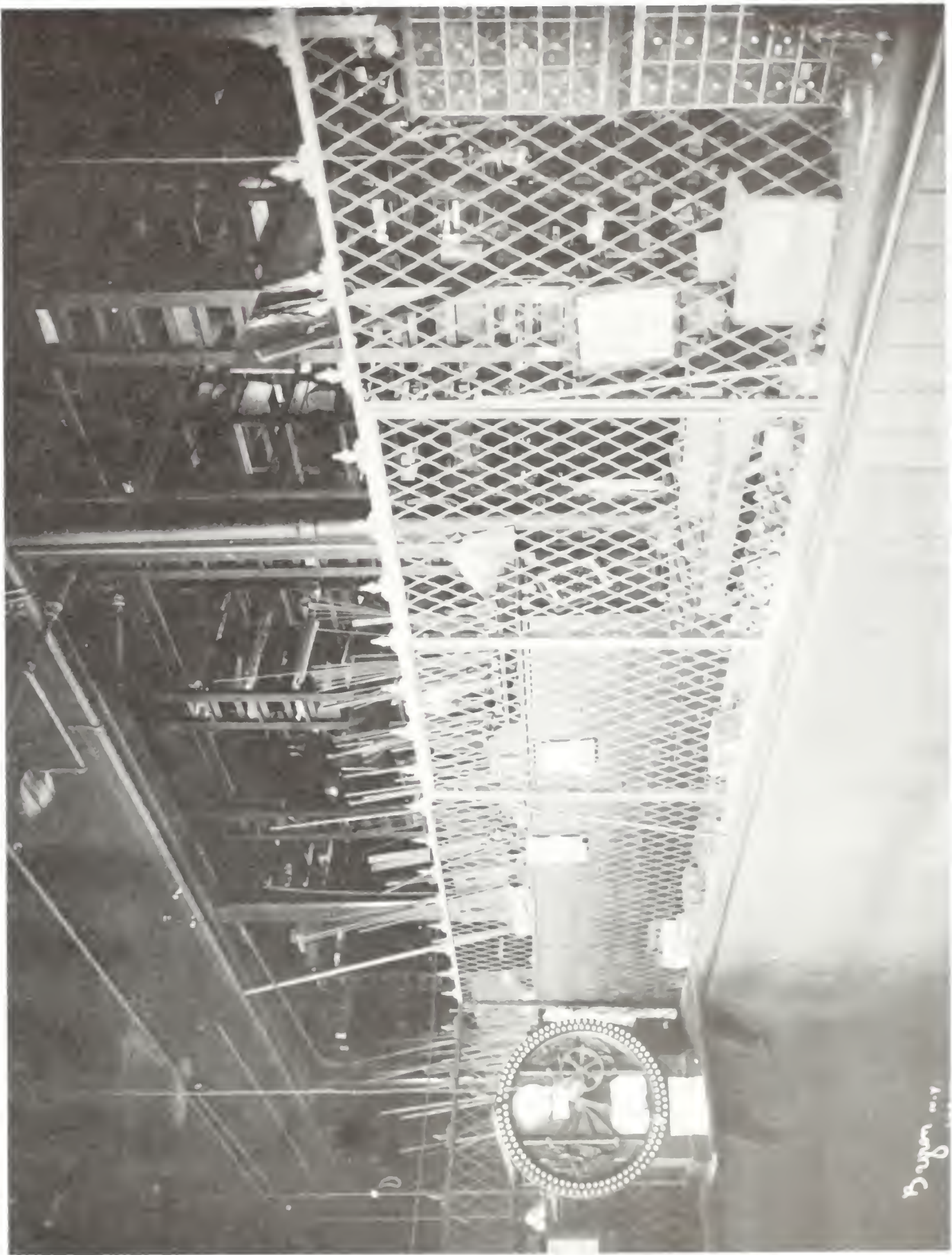
Figure 91. Stock room, Building 5, from "Edison's Latest Marvel: The New Storage Battery," in *Windsor Magazine*, November 1902.



"THE SHELVES OF EDISON'S LABORATORY ARE SAID TO CONTAIN SAMPLES OF EVERY KNOWN SUBSTANCE."

Figure 92.

Stock room, Building 5, looking west, 1904. Photograph by Joseph Byron, neg. no. 17939.



Aug 1917

Figure 93. Stock room, Building 5, looking west, 1914. Photo no. 10.388/22 neg. no. 2665.

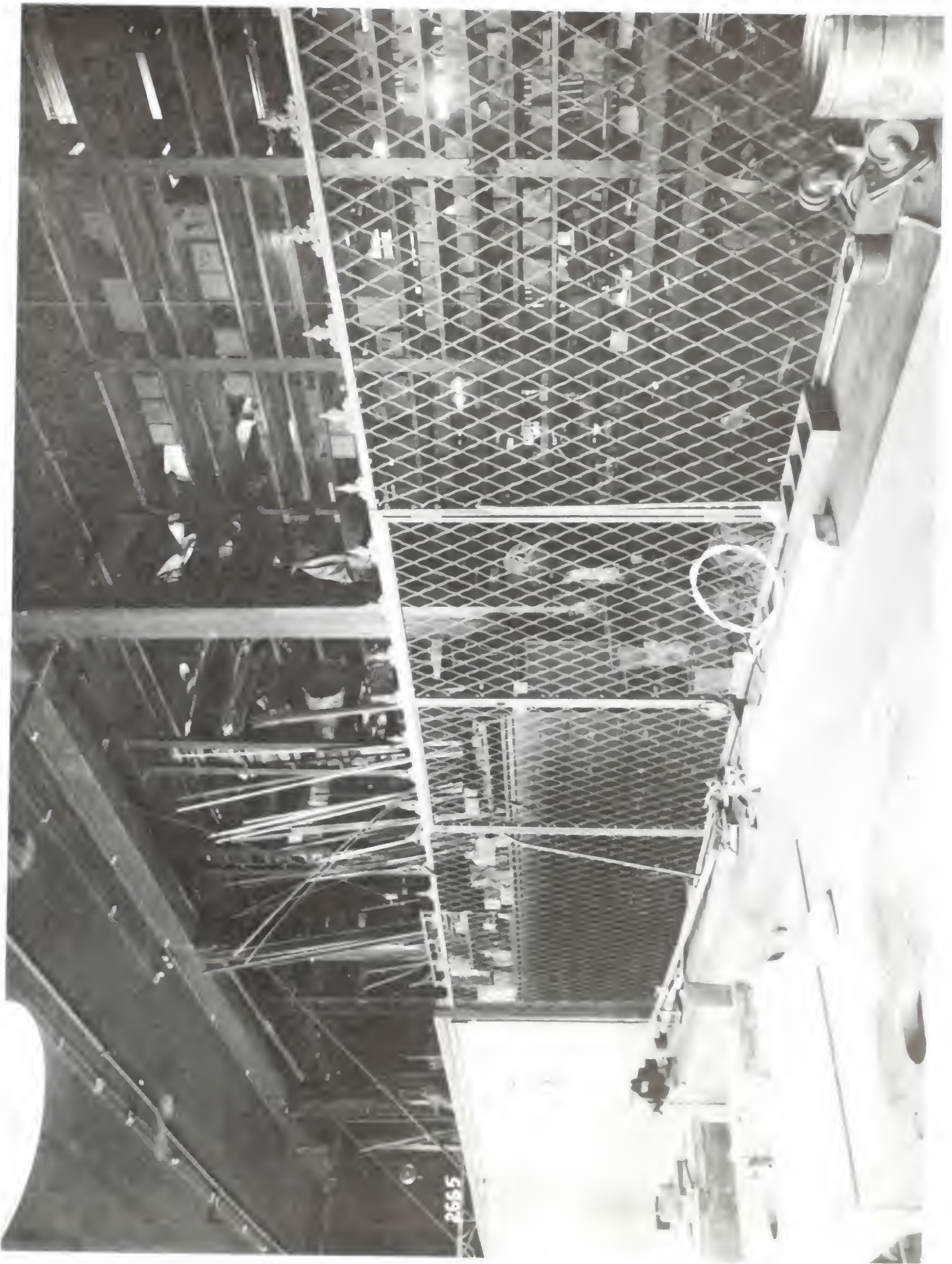


Figure 94. Stock room, Building 5, September 1939. Photograph by Ralph and Ralph. Photo no. 12.440/325, neg. no. 8319.



Figure 95.

Stock room, Building 5, looking southwest, September 1939.
Photograph by Ralph and Ralph. Photo no. 12.440/326, neg.
no. 8320.

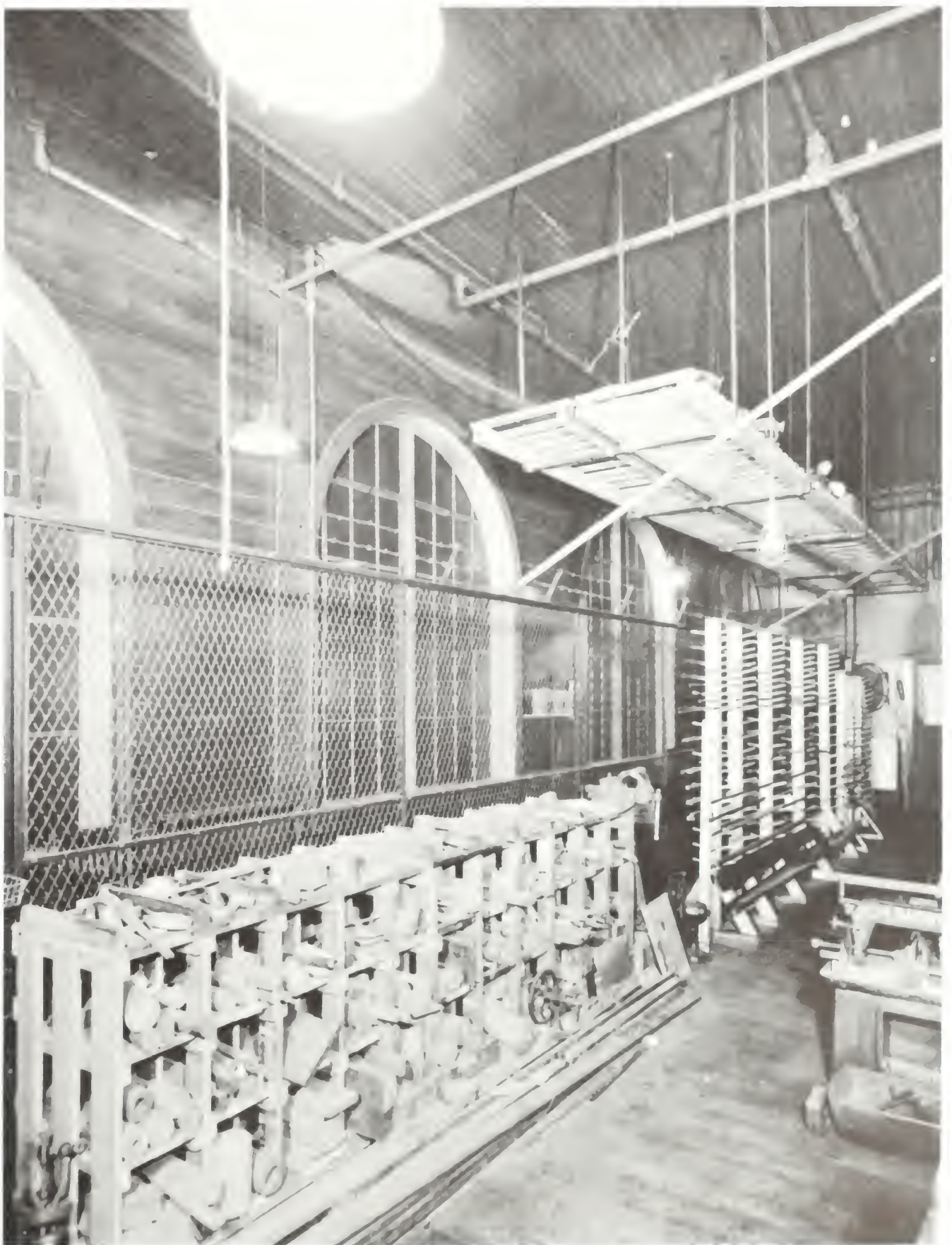


Figure 96. Stock room, Building 5, looking east, September 1939.
Photograph by Ralph and Ralph. Photo no. 12.440/327, neg.
no. 8321.

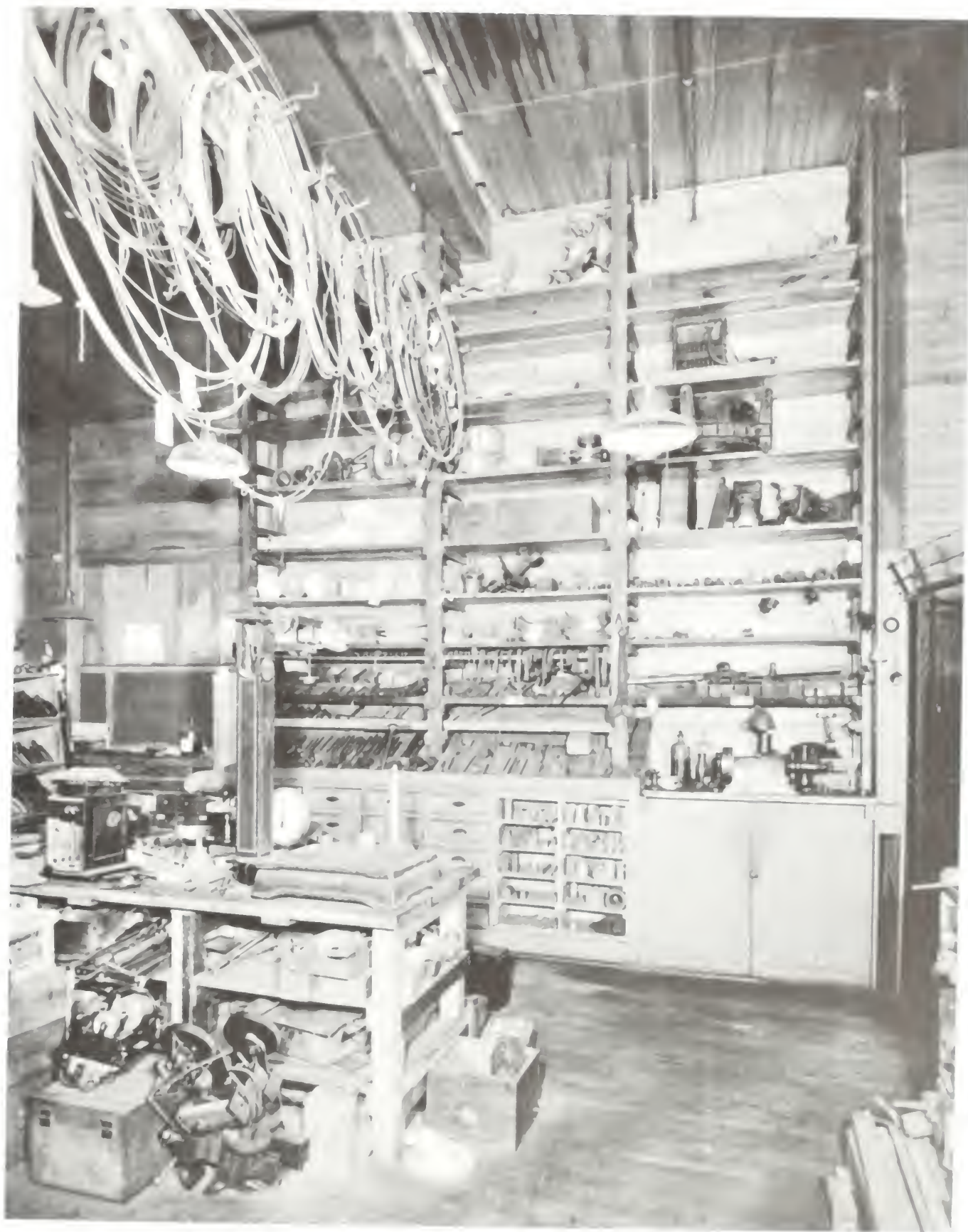


Figure 97.

Stock room, Building 5, looking north, September 1939.
Photograph by Ralph and Ralph. Photo no. 12.440/339, neg. no.
8333.

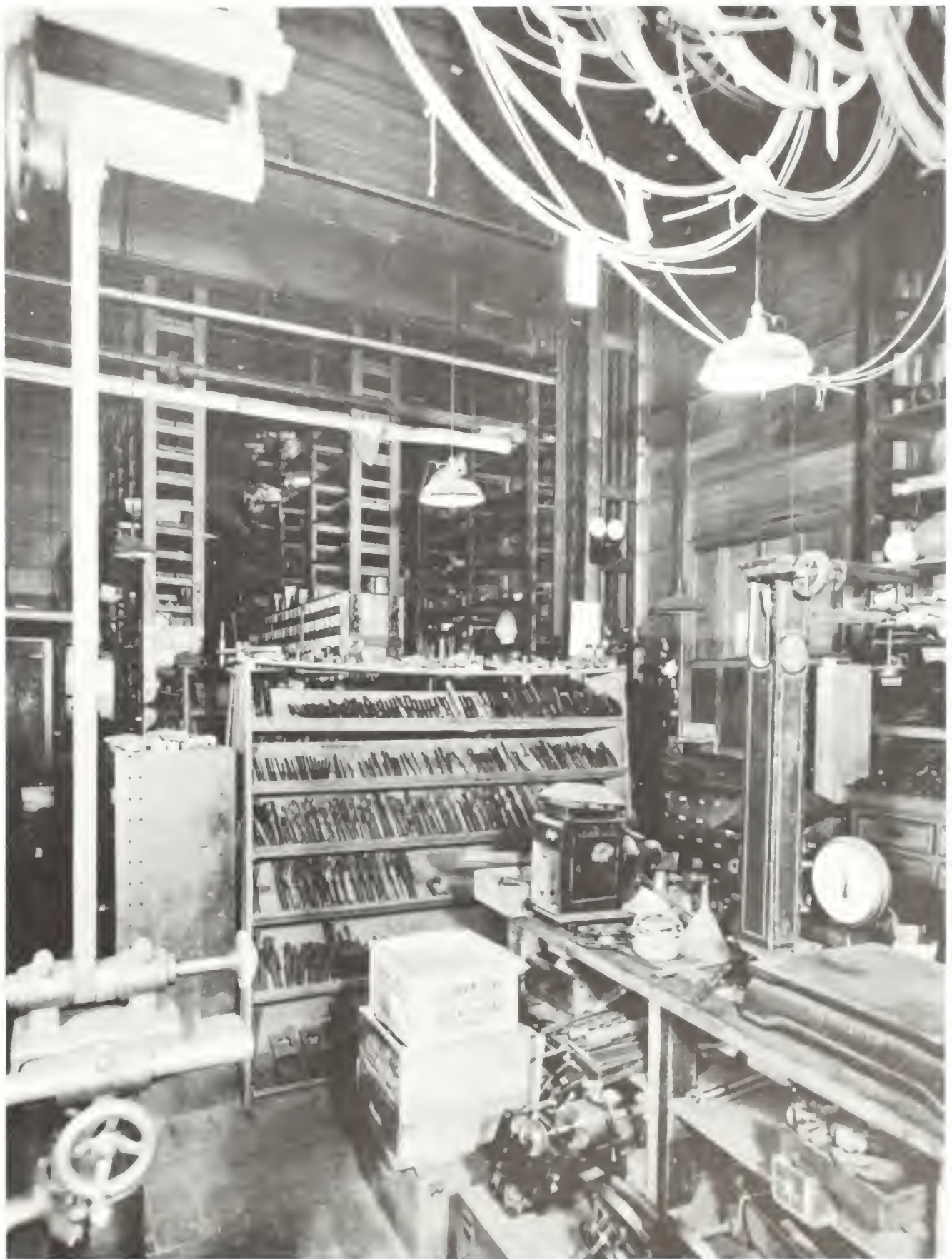
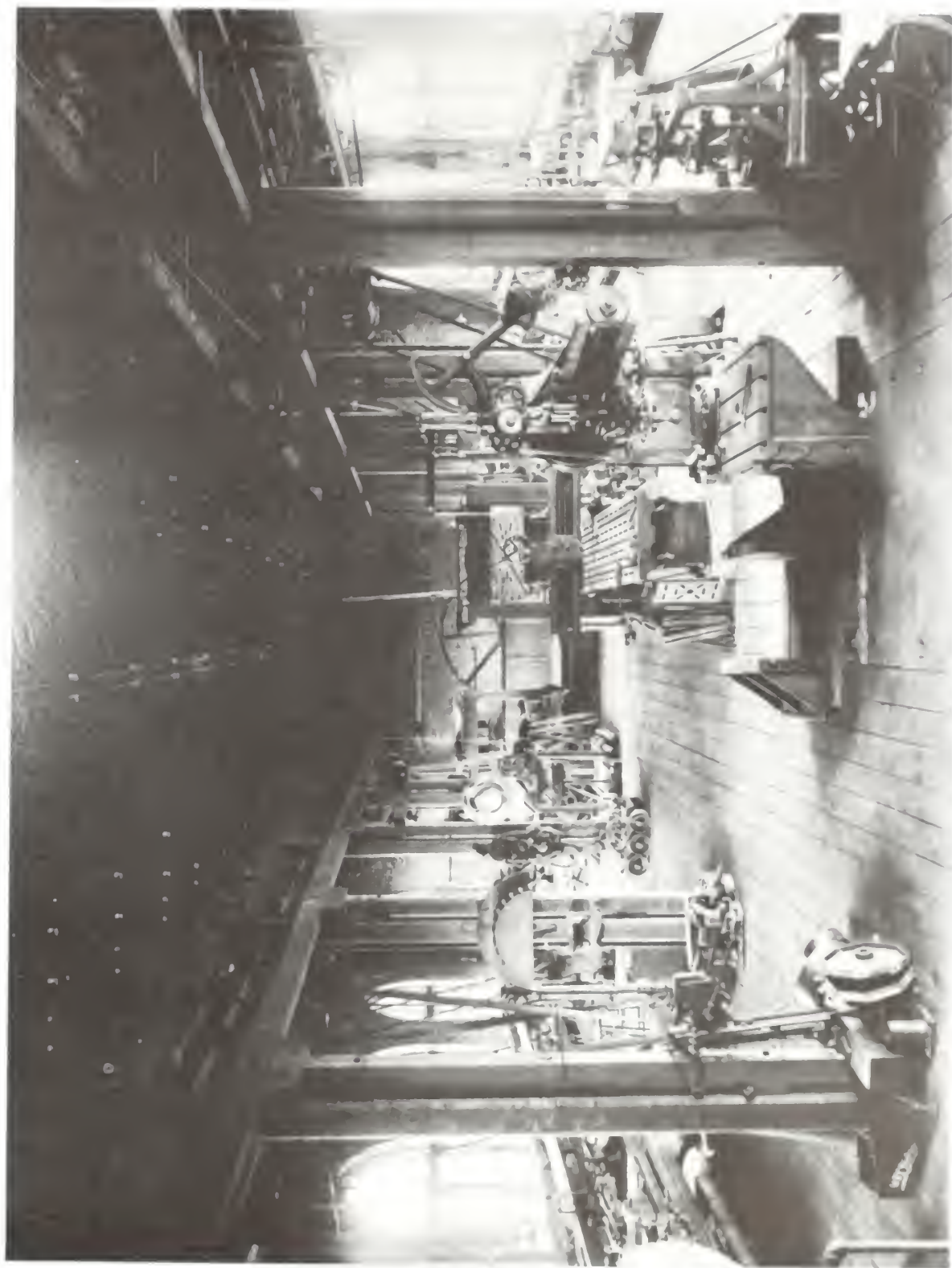


Figure 98. Stock room, Building 5, September 1939. Photograph by Ralph and Ralph. Neg. no. 8325.



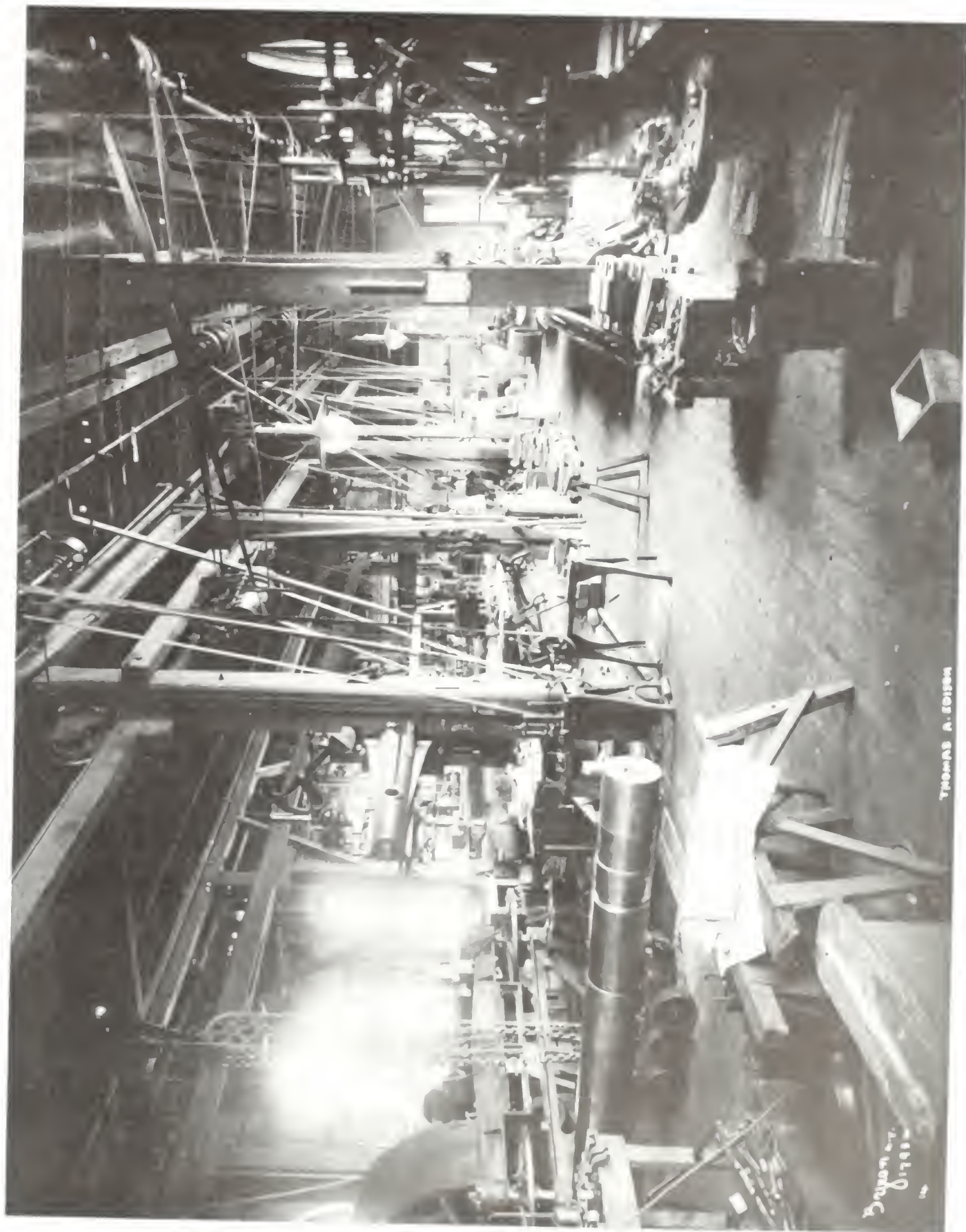
8325

Figure 99. Heavy machine shop, Building 5, looking east, about 1890.
Photograph by W.K.L. Dickson. No classification number.



Main Machine Shop
Edison's Orange Laboratory

Figure 100. Heavy machine shop, Building 5, looking east, about 1904.
Photograph by Joseph Byron. Neg. no. 17934.



THOMAS A. EDISON

BYRON L. 01791

Figure 101. Heavy machine shop, Building 5, looking south, elevator to right, April 1914. Photo no. 10.388/9, neg. no. 2517.



Figure 102. Heavy machine shop, Building 5, looking northeast, April 1914.
Photo no. 10.388/11, neg. no. 2519.

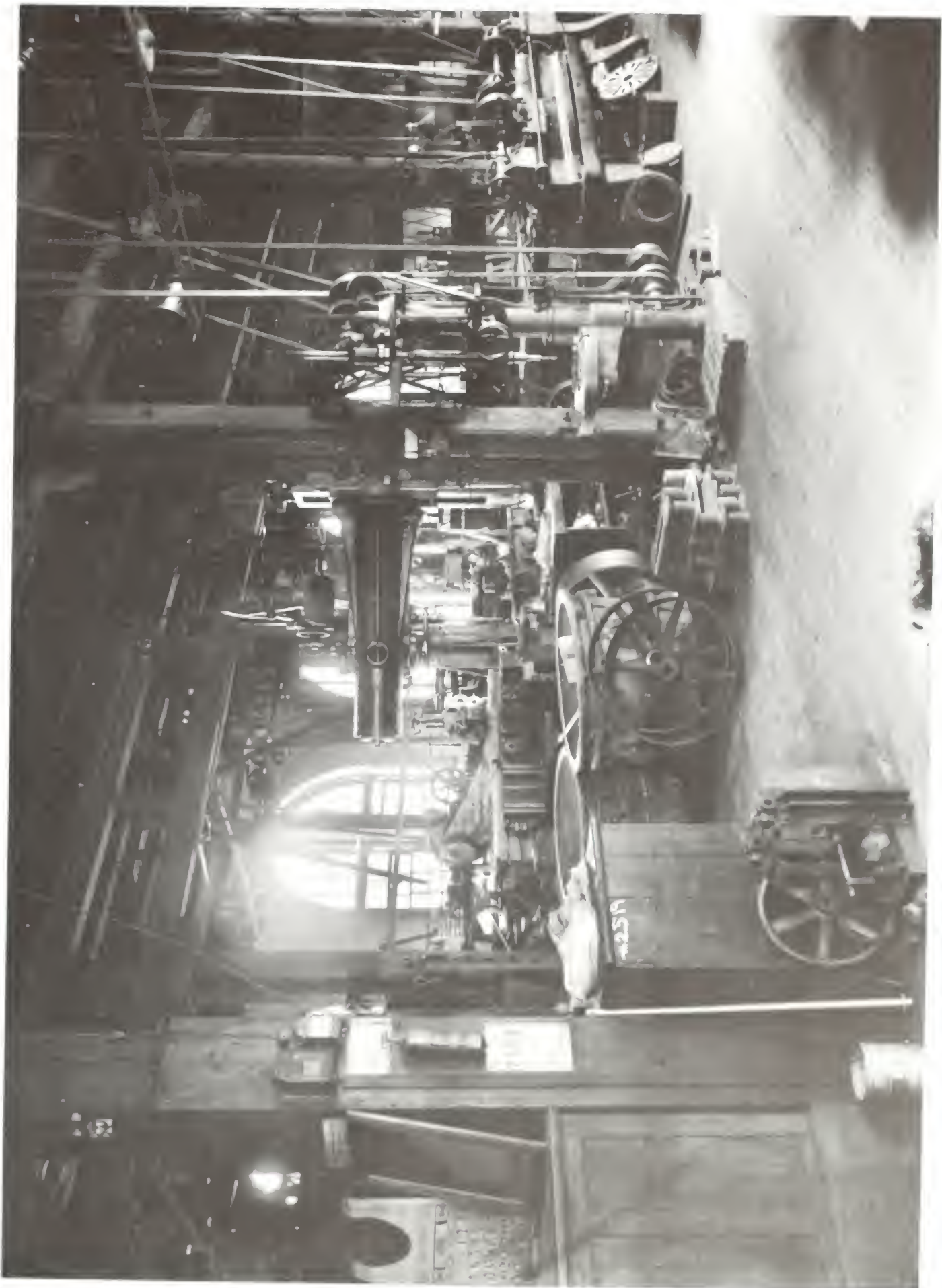


Figure 103. Heavy machine shop, Building 5, south aisle, looking west,
April 1914. Photo no. 10.388/13, neg. no. 2521.



Figure 104. Heavy machine shop, Building 5, center aisle, looking west,
April 1914. Photo no. 10.388/17, neg. no. 2522.

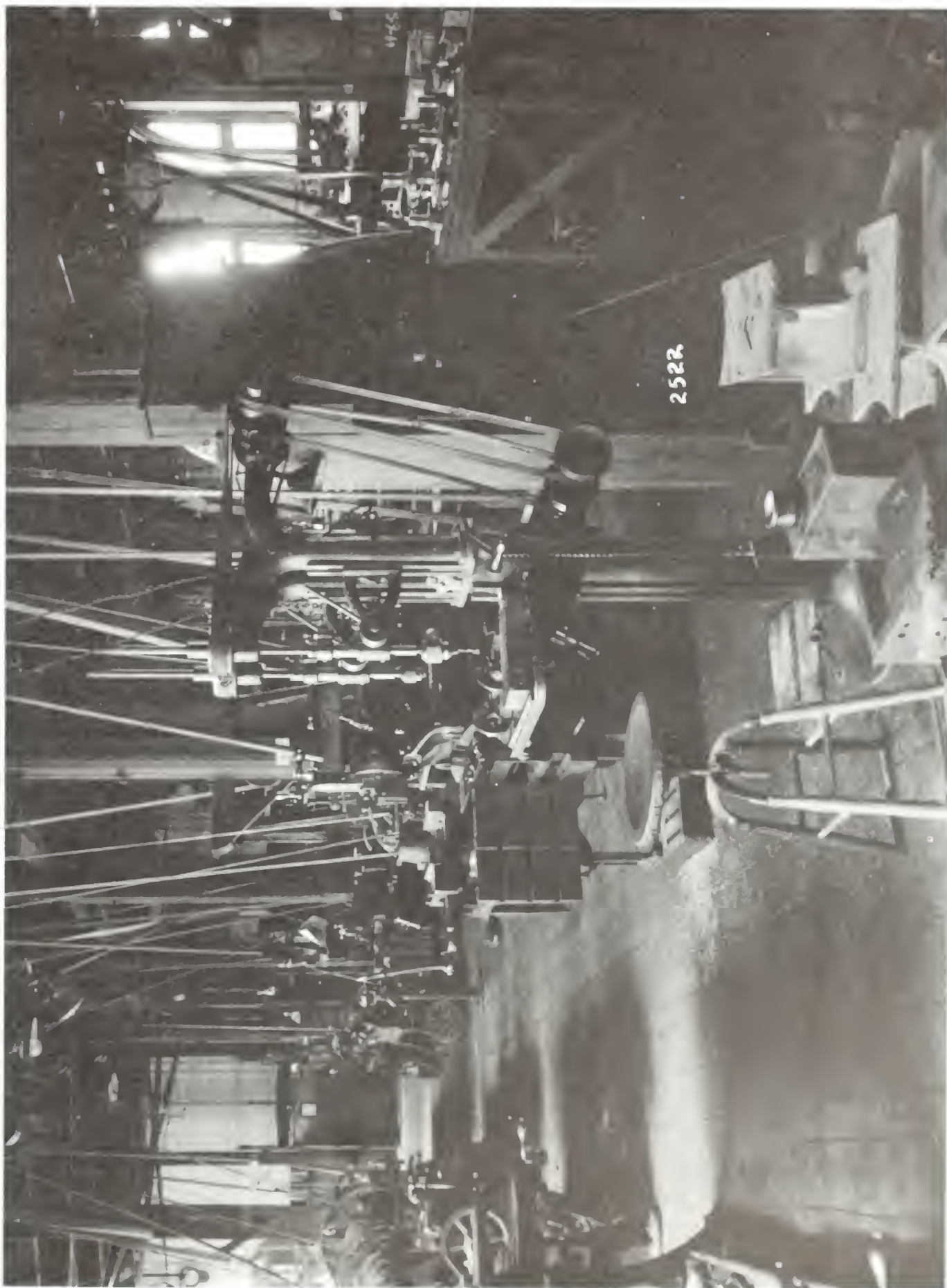


Figure 105. Heavy machine shop, Building 5, south aisle, looking east,
April 1914. Photo no. 10.388/12, neg. no. 2520.

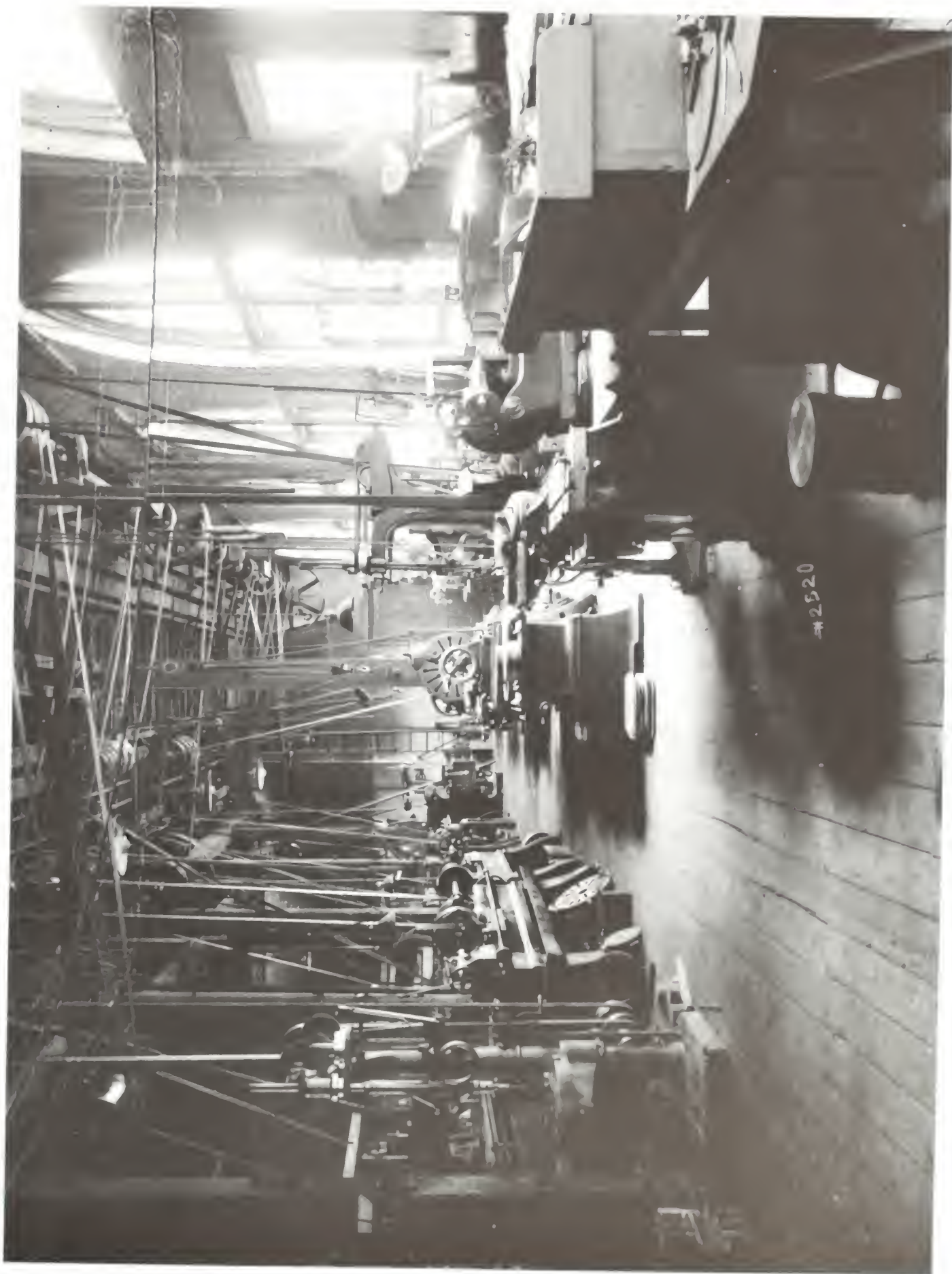


Figure 106. Heavy machine shop, Building 5, north aisle, looking west,
April 1914. Photo no. 10.388/18, neg. no. 2523.



Figure 107. Heavy machine shop, Building 5, north aisle, looking east,
April 1914. Photo no. 10.388/10, neg. no. 2518.

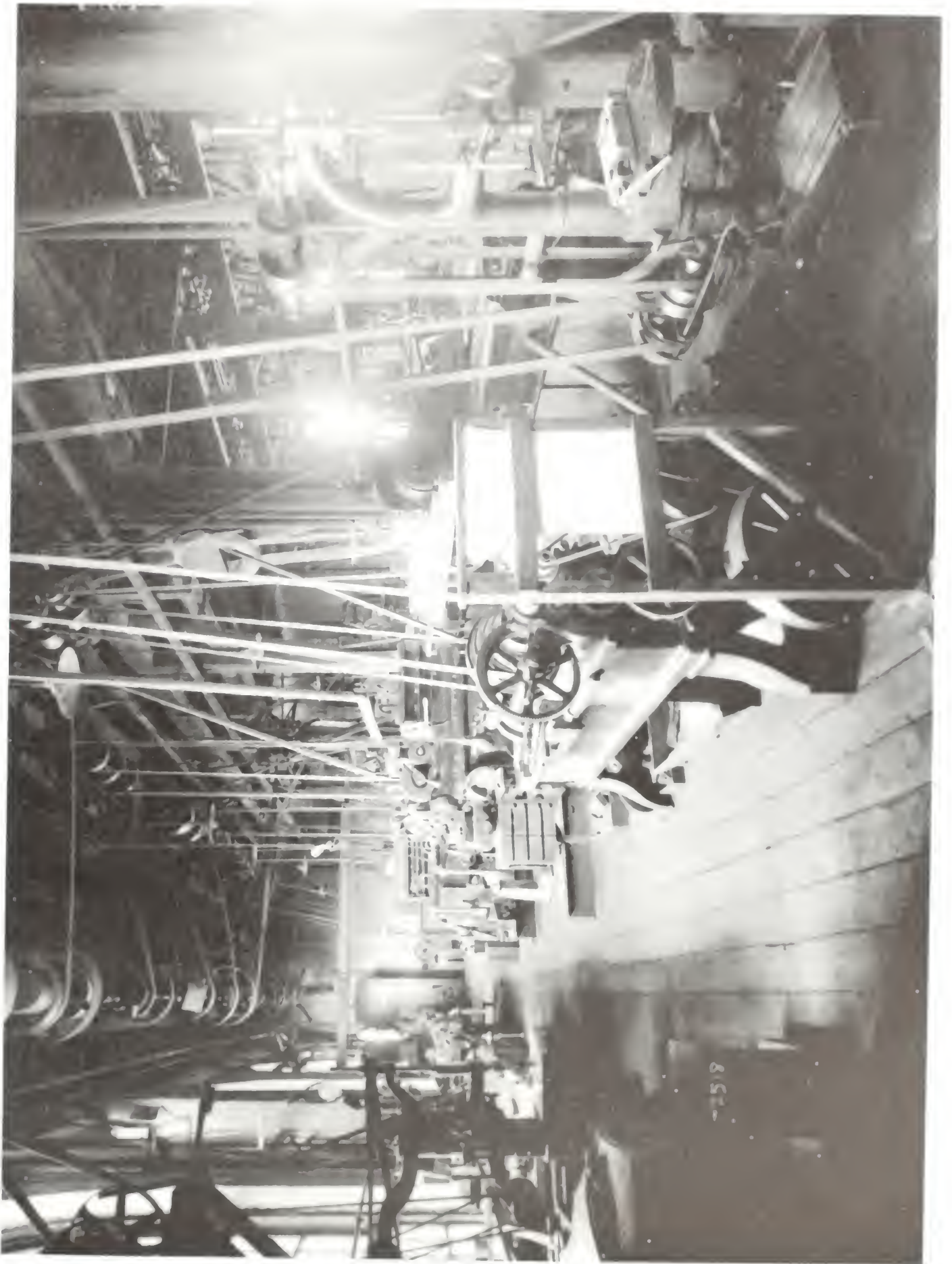
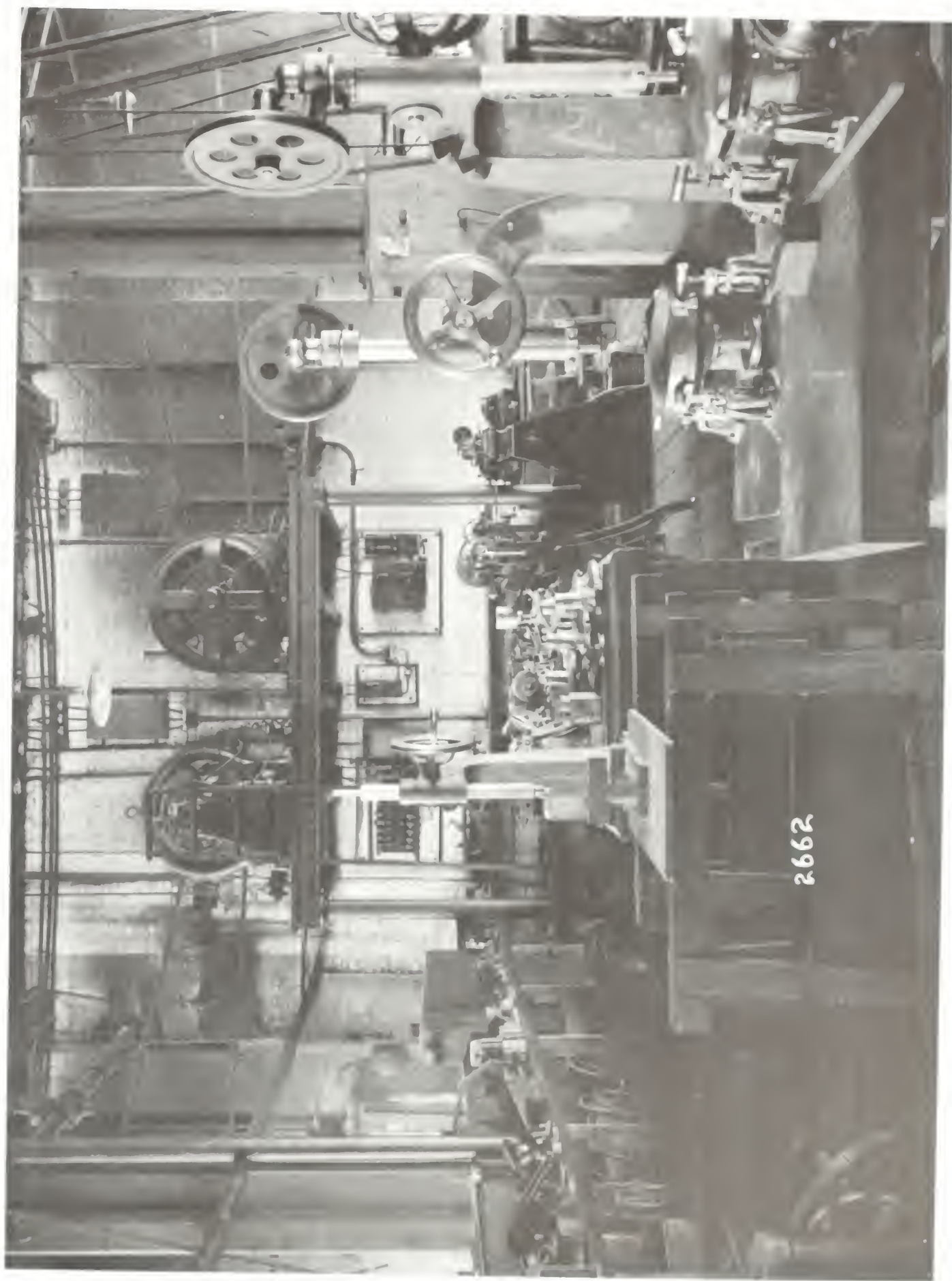


Figure 108. Heavy machine shop, Building 5, east wall, April 1914. Photo no. 10.388/20, neg. no. 2662.



2662

Figure 109.

Heavy machine shop, Building 5, northeast corner, April 1914.
Photo no. 10.388/19, neg. no. 2527.

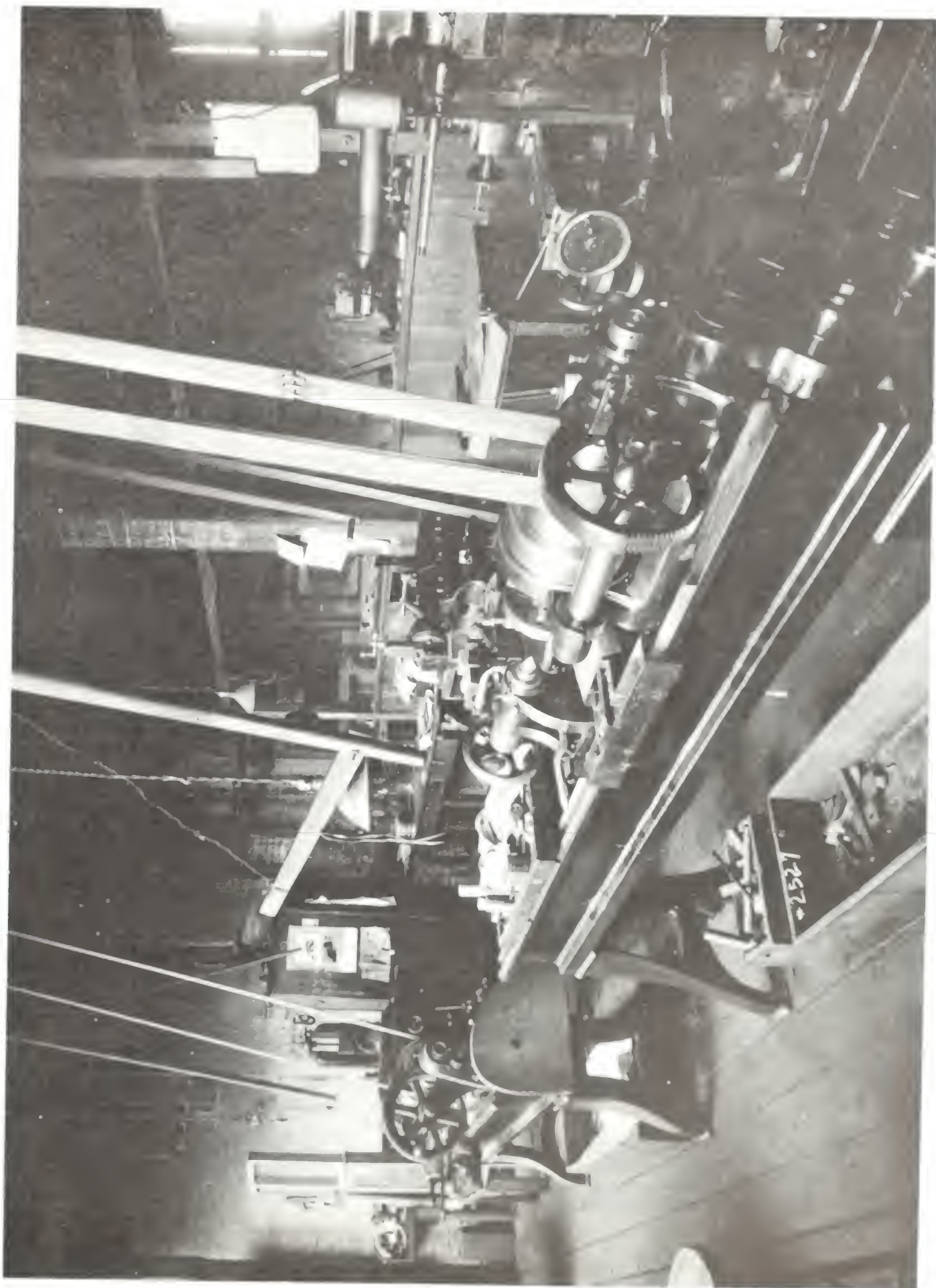


Figure 110.

Heavy machine shop, Building 5, looking east, September 1939.
Photo no. 12.440/307, neg. no. 8301.

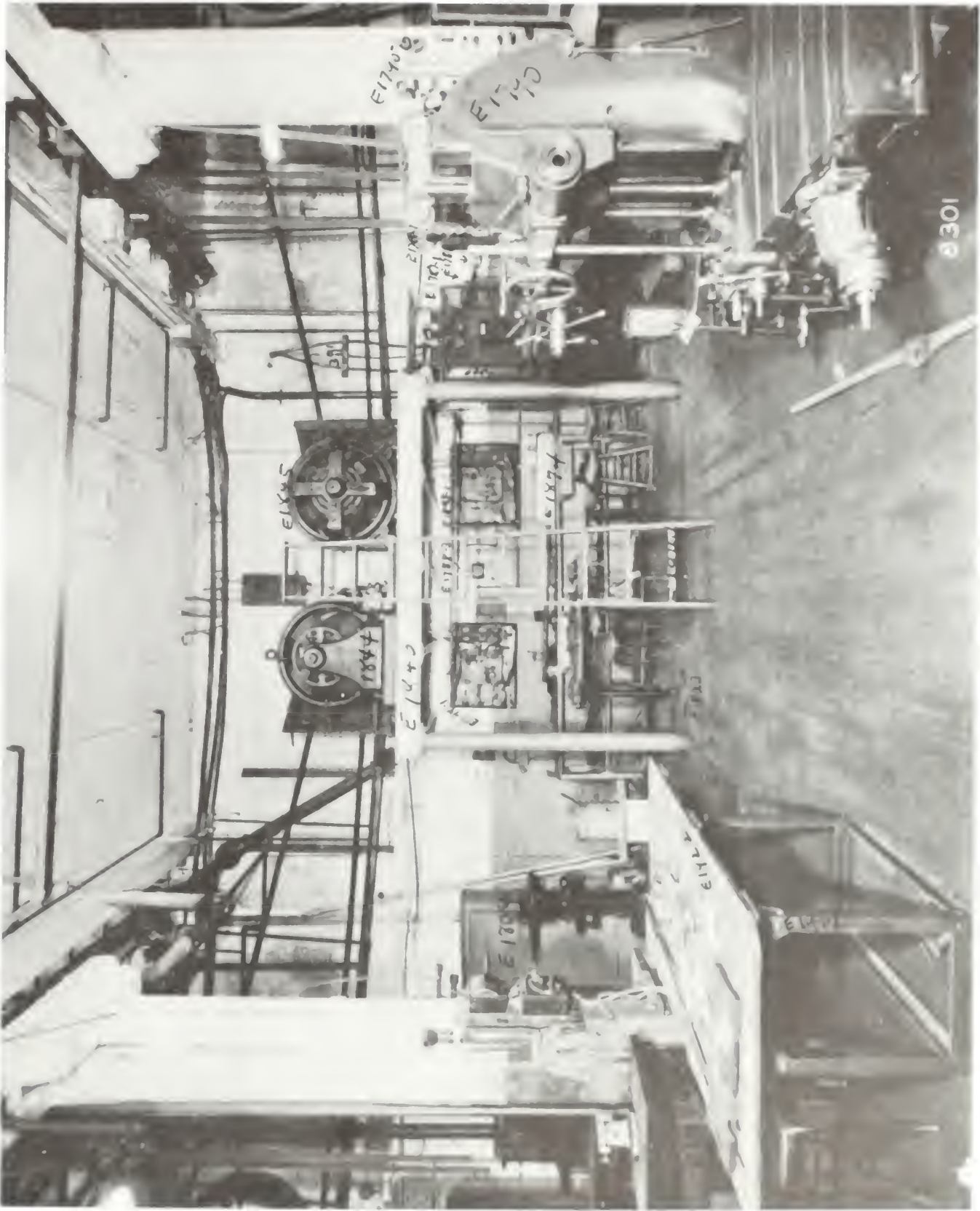
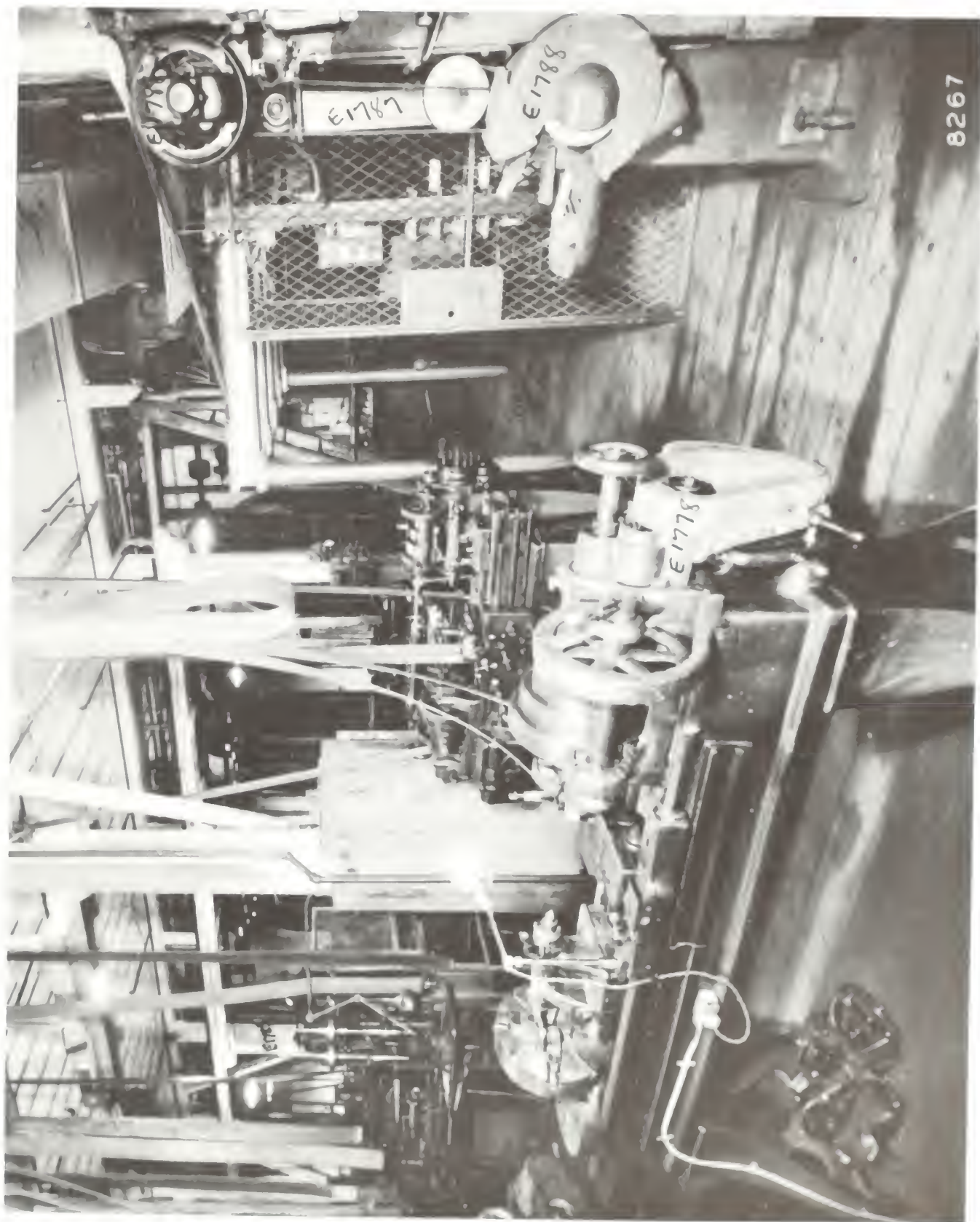


Figure 111. Heavy machine shop, Building 5, looking north, September 1939. Photo no. 12.440/273, neg. no. 8267.



8267

Figure 112.

Tool chest similar to those used at the West Orange laboratories, 1903-1920. Courtesy of the National Museum of American History, Smithsonian Institution, neg. no. 84-15912.



Figure 113. Edison in room 12, second floor of Building 5, 1898. Photo no. 14.720/7.



Franklin D. Roosevelt
1933-1945

Figure 114. Edison in office, possibly within room 12, second floor of Building 5, date unknown. Photo no. 10.381/11, neg. no. 244.



Figure 115.

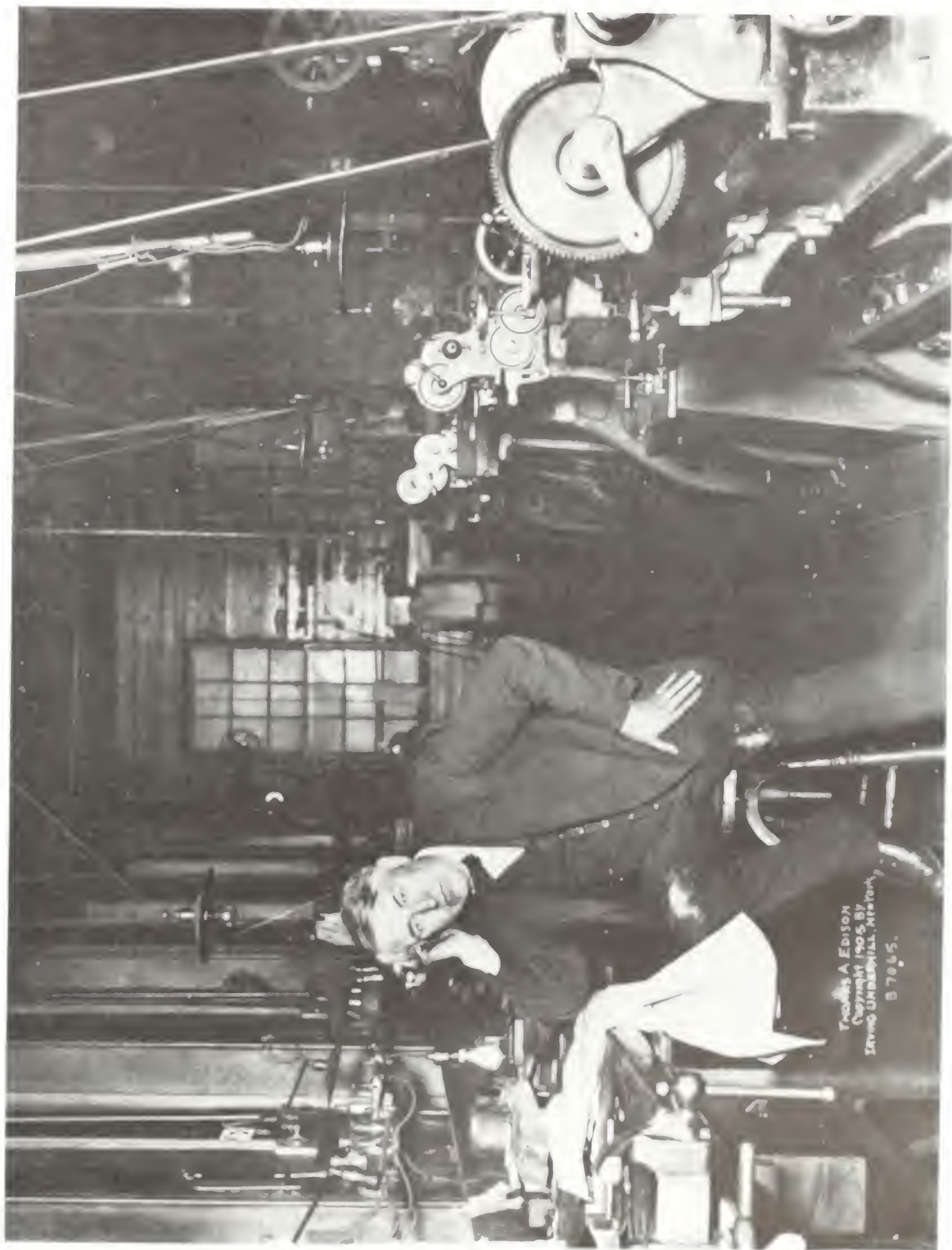
John Ott in room 10, second floor of Building 5, date unknown.
Photo no. 10.144/12.



Figure 116. Precision machine shop, second floor of Building 5, north aisle, looking east, before 1893. Photograph by W.K.L. Dickson. Photo no. 10.388/1, neg. no. 0-7981.



Figure 117. Edison in precision machine shop, second floor of Building 5, north aisle, looking east, ca.1900. Photo no. 14.720/6.



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B 7065.

Figure 118. Precision machine shop, second floor of Building 5, north aisle, looking west, May 1904. Photograph by Joseph Byron, neg. 17935. Photo no. 10.388/7, neg. no. 07982.



Figure 119. Precision machine shop, second floor of Building 5, north aisle, looking west, April 1914. Photo no. 10.388/16, neg. no. 2528.



Figure 120. Precision machine shop, second floor, Building 5, center aisle, looking east, April 1914. Photo no. 10.388/15, neg. no. 2526.



2526

Figure 121. Precision machine shop, second floor, Building 5, north aisle, looking east, April 1914. Photo no. 10.388/21, neg. no. 2660.



Figure 122.

Precision machine shop, second floor, Building 5, south side, looking east, April 1914. Photo no. 10.388/8, neg. no. 2515.



Figure 123. Precision machine shop, second floor, Building 5, center aisle, looking east, May 2, 1914. Photo no. 10.388/23, neg. no. 2677.



Figure 124.

Precision machine shop, second floor, Building 5, northwest corner, north aisle, looking west, April 1914. Photo no. 10.388/14, neg. no. 2525.

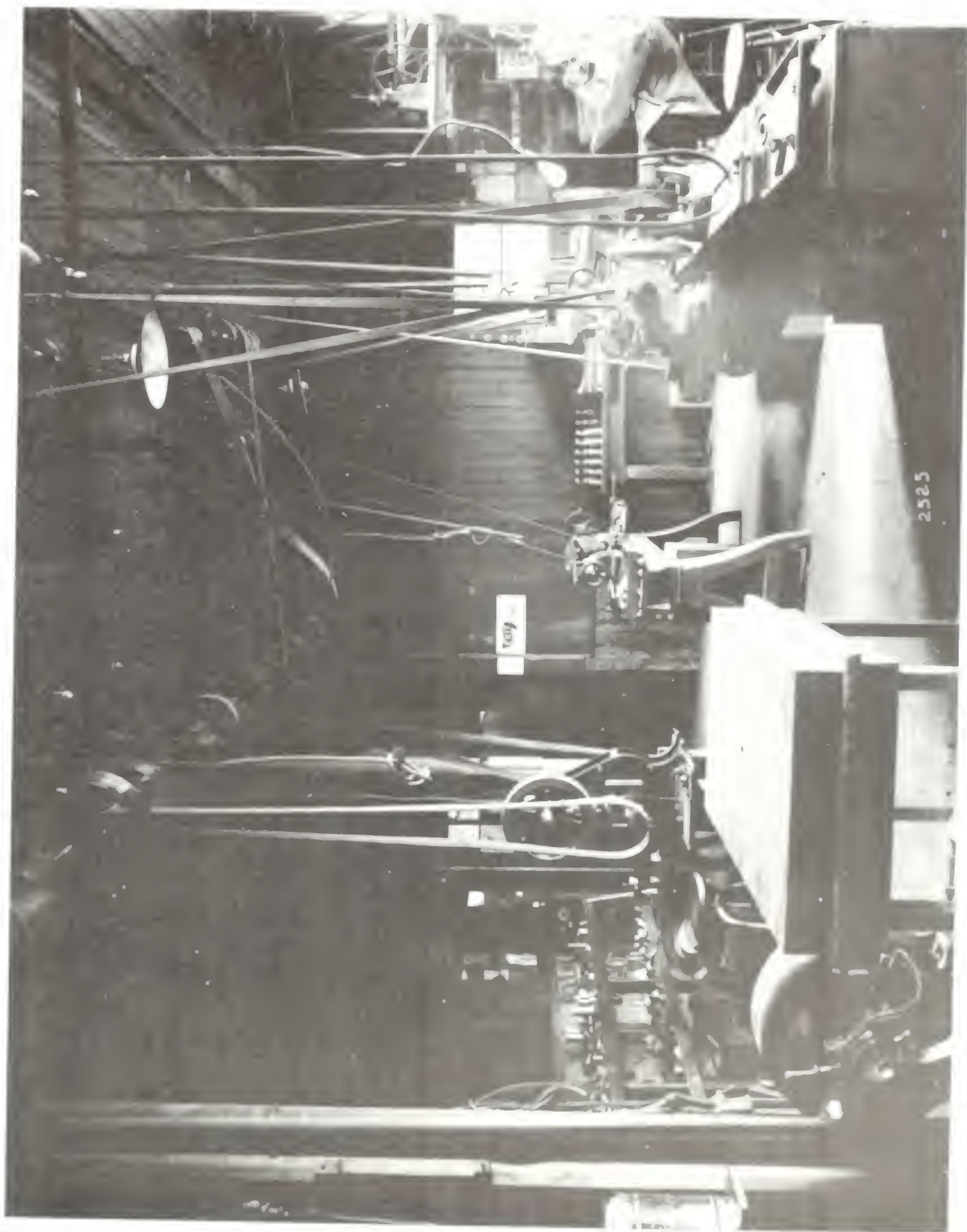


Figure 125. Edison in precision machine shop, second floor, Building 5, looking west, January 1915. Photo no. 14.220/39, neg. no. 3423.

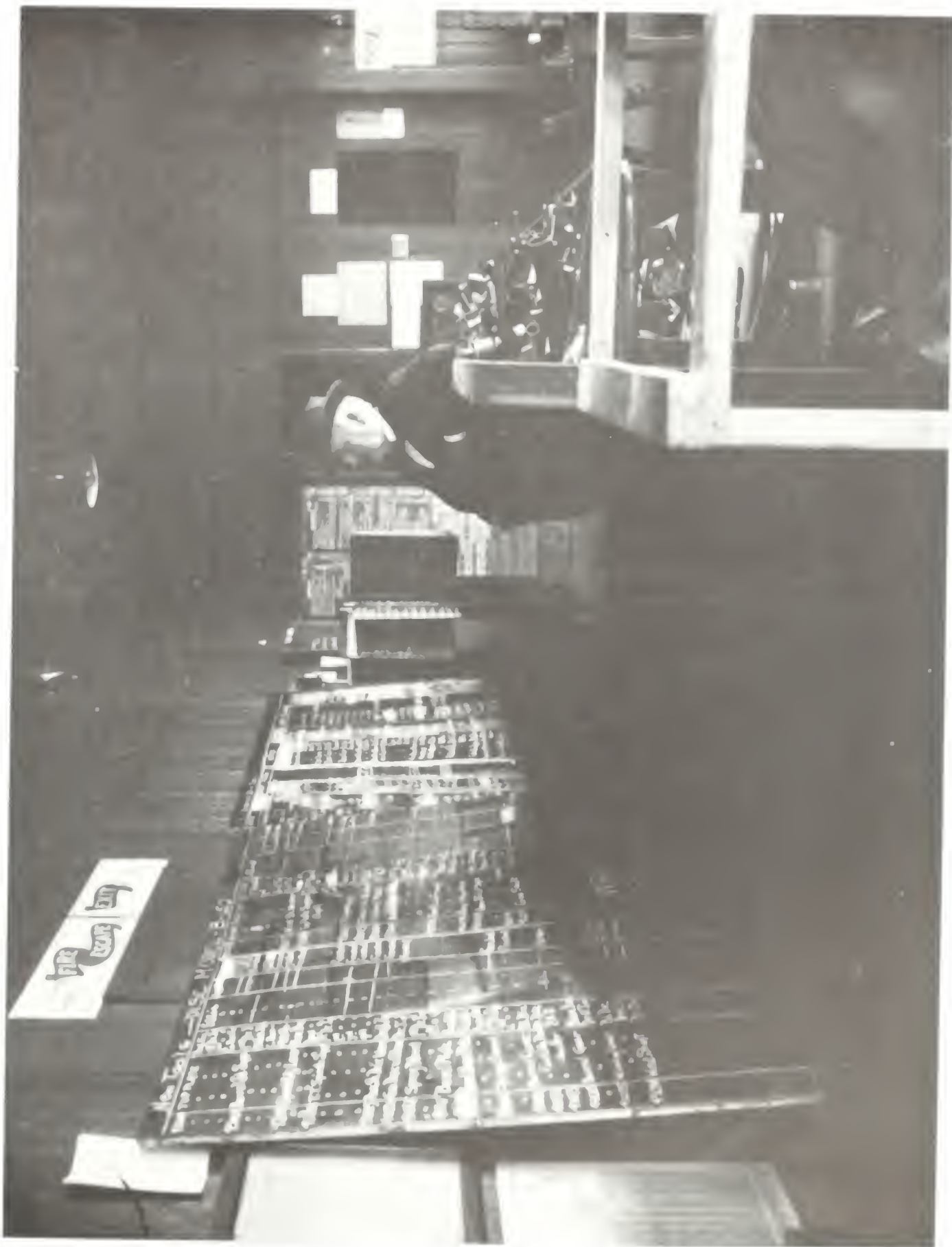


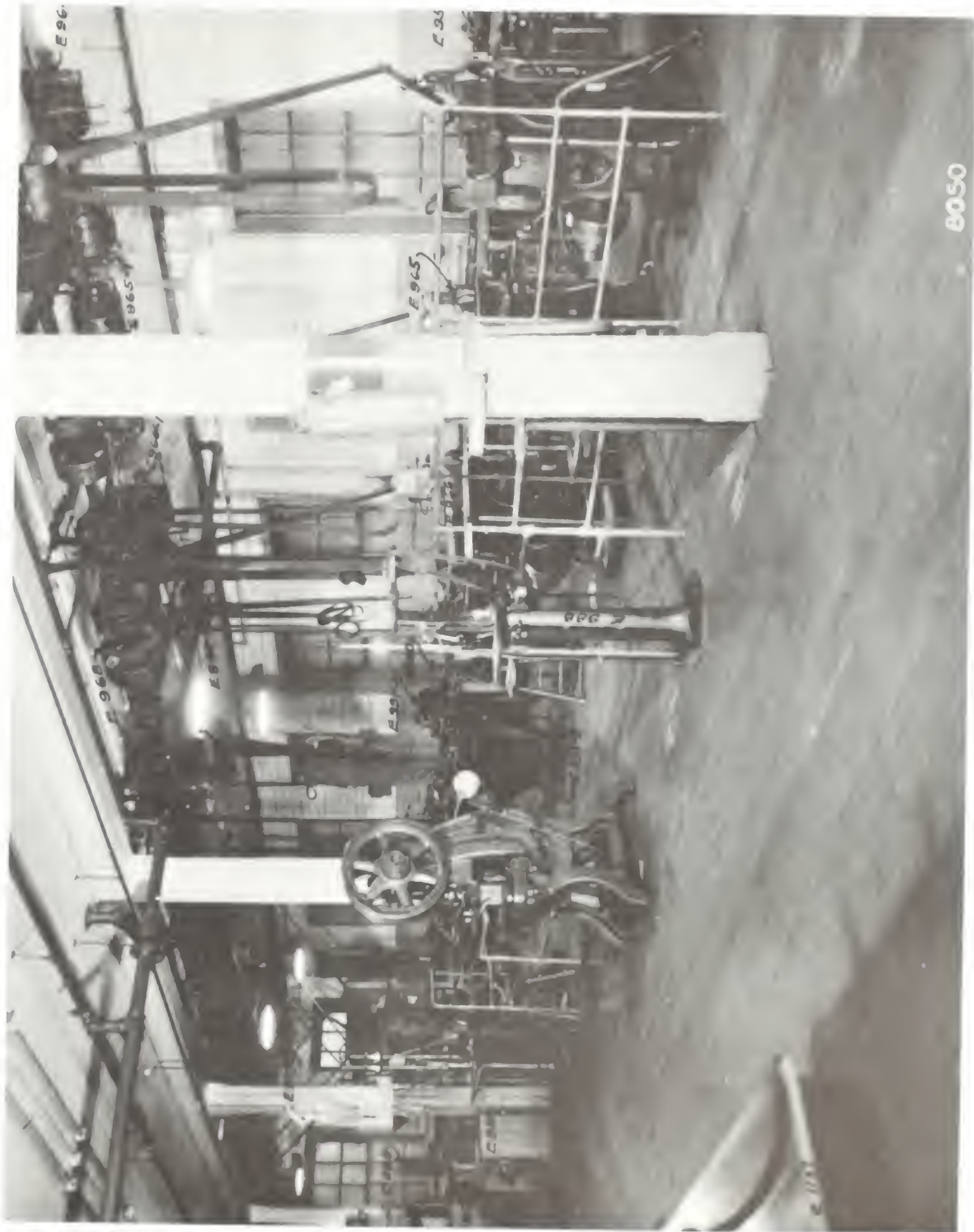
Figure 126.

Edison in precision machine shop, second floor, Building 5, northwest corner, 1914-1915. Photo no. 10.388/24, neg. no. 2663.

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Figure 127. Precision machine shop, second floor, Building 5, northwest corner, ca.1914-15. Photo no. 14.720/44.



8050

Figure 128.

Charles Dally with X-ray apparatus, experimental room, second floor, Building 5, ca.1904. Photo no. 22.200/12, neg. no. 6981.

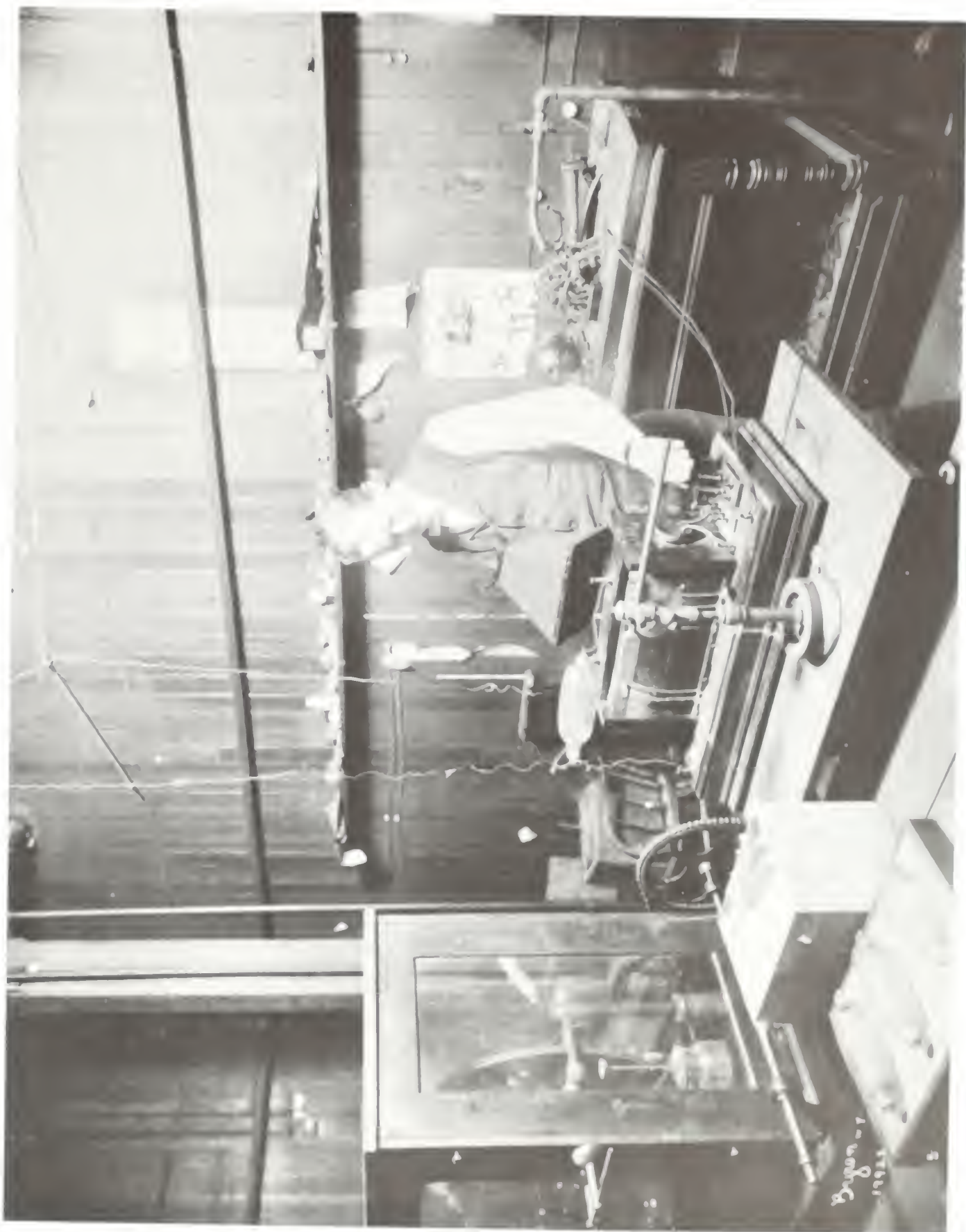


Figure 129. Precision machine shop, second floor, Building 5, looking toward southeast corner, September 1939. Photo no. 12.440/54, neg. no. 8050.

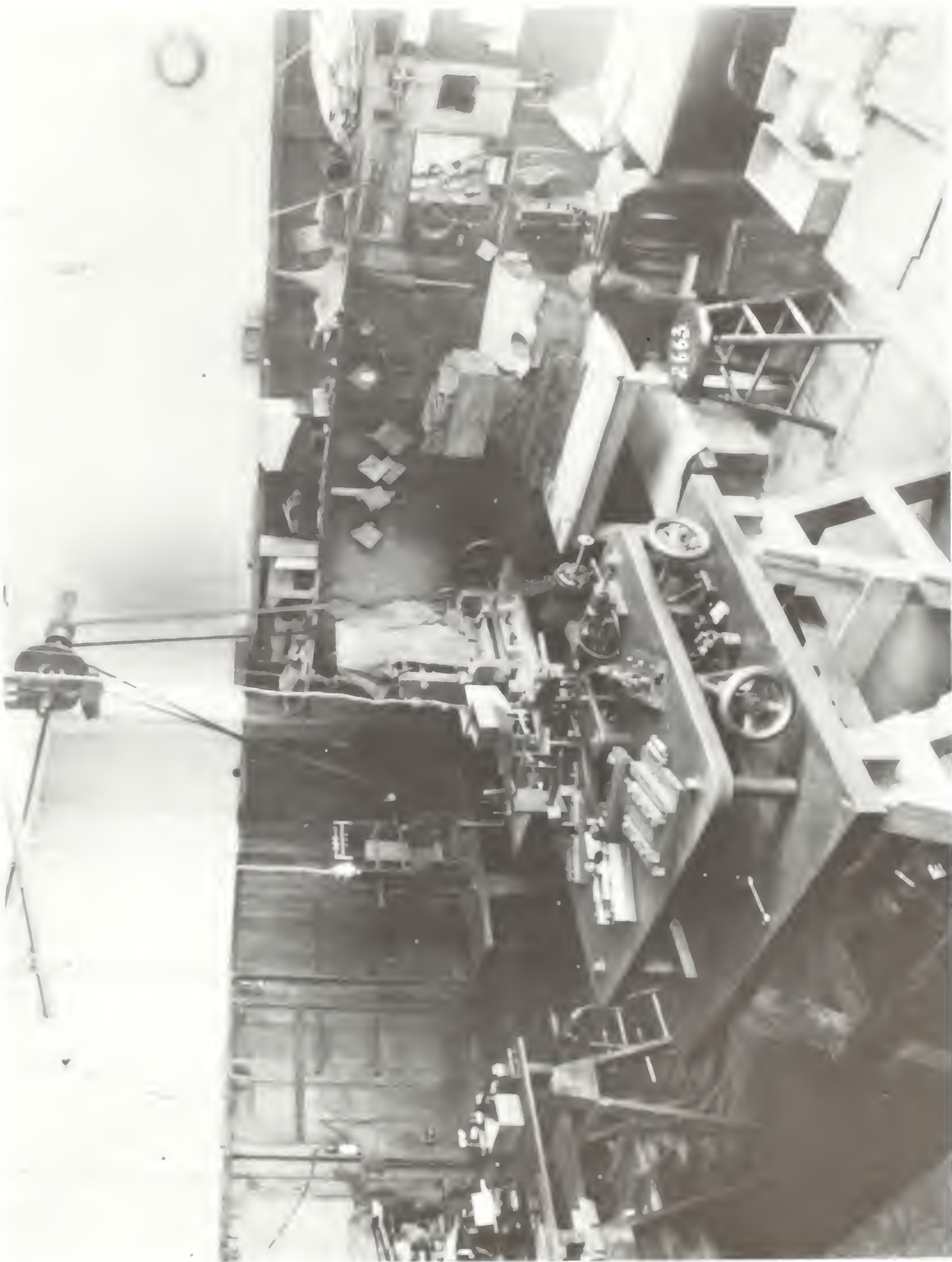


Figure 130.

Drafting room/engineering office, second floor, Building 5,
looking east, April 1914. Photo no. 10.389/16, neg. no. 2661.



Figure 131. Drafting room/engineering office, second floor, Building 5, looking west, September 1915. Photo no. 29.320/61, neg. no. 3975.



ENGINEERING OFFICE

Figure 132. Music room, third floor, Building 5, looking south, 1904-1905.
Photo no. 29.430/3, neg. no. 0-7058.



Figure 133. Third floor, Building 5. Standing: Alexander Elliott, Jr.
Seated (left to right): Mina McArthur, Anna Klehm, and Delos
Holden, 1904. Photograph by Joseph Byron. Photo no.
10.389/17, neg. no. 0-7984.



1931
Bryant

YOUNG & RUBIN

Figure 134. Small cell testing room, third floor, Building 5, northeast corner, 1910.

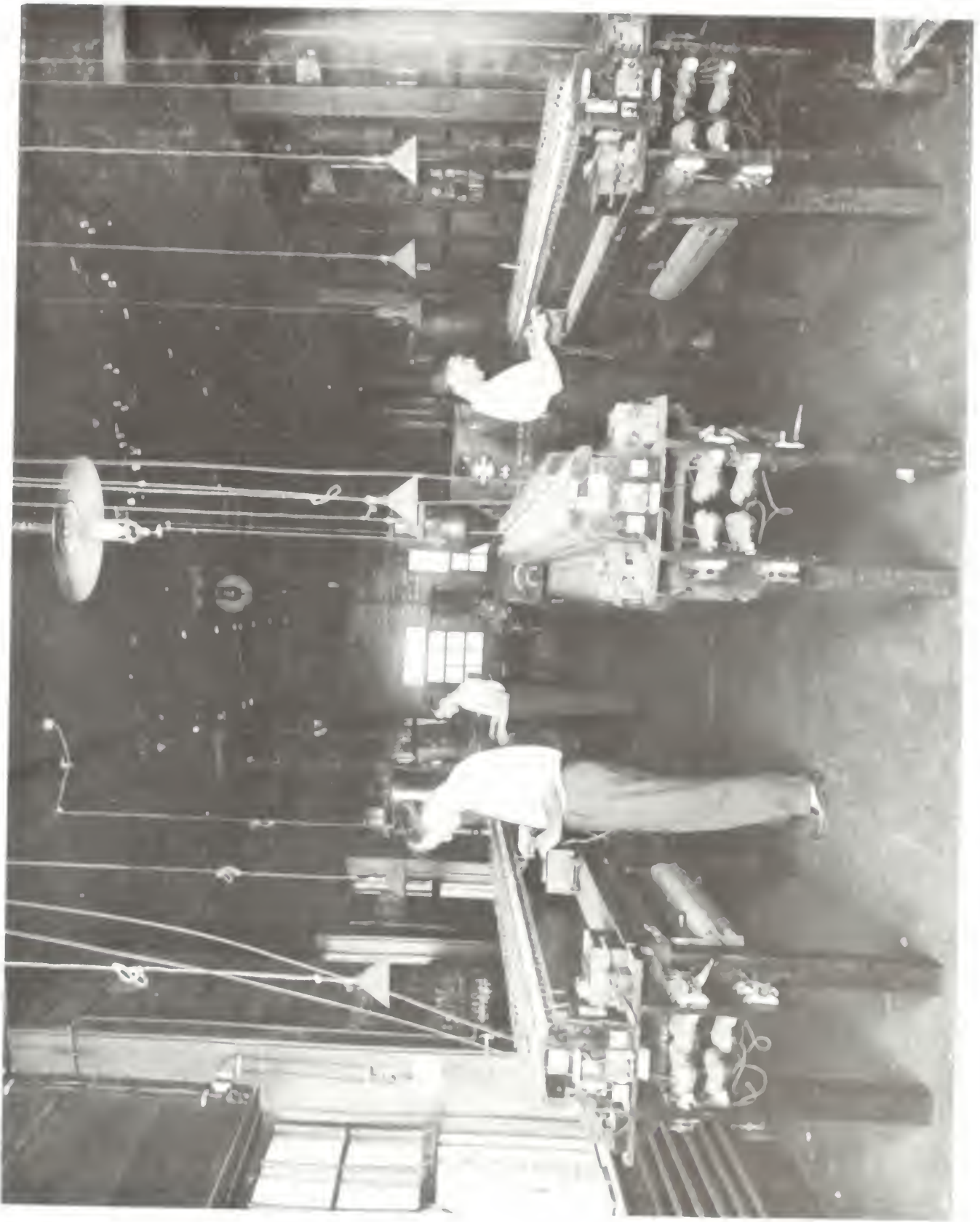


Figure 135. Small cell testing room, third floor, Building 5, north side, looking west, ca.1910. Photo no. 06.030/87, neg. no. 143.

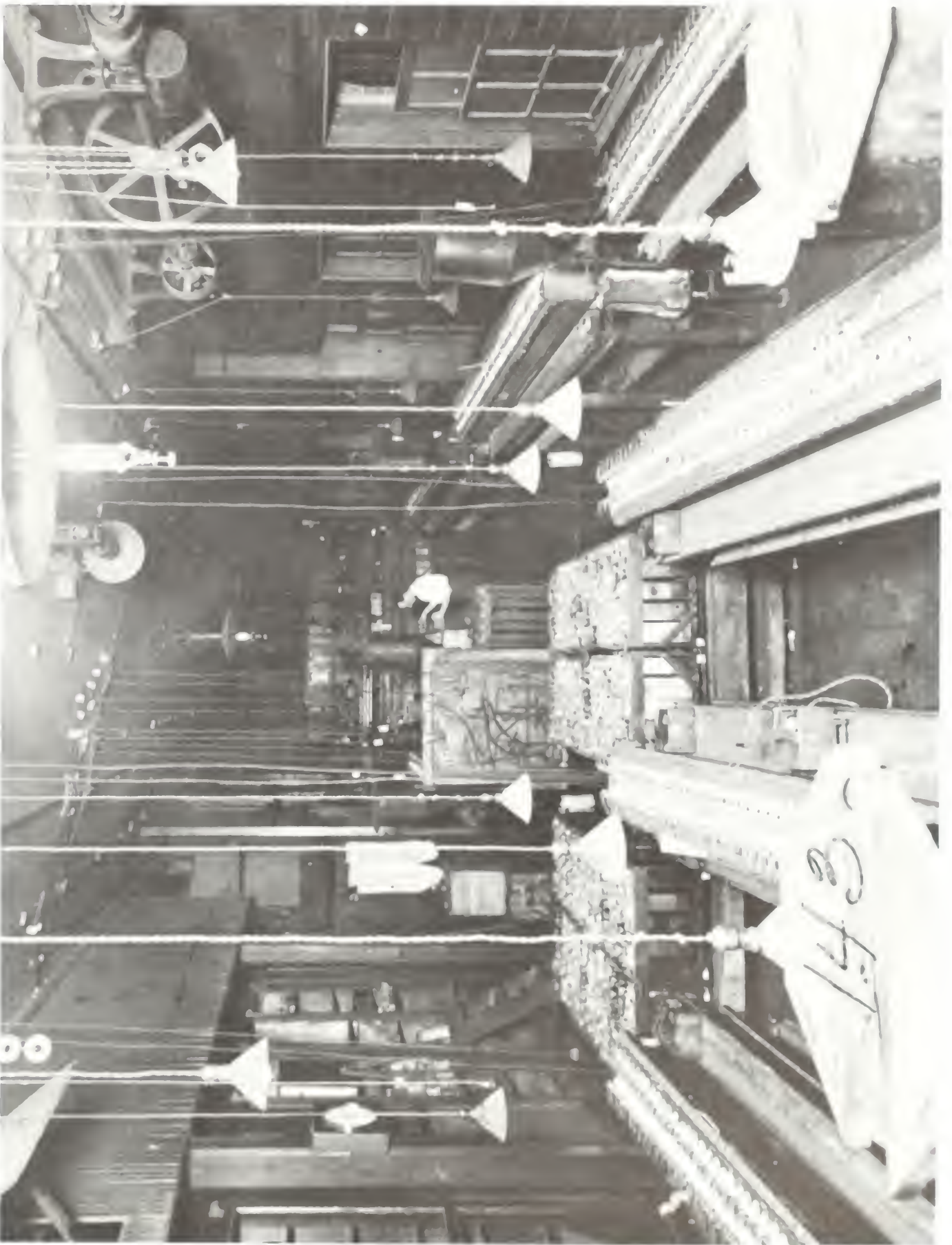


Figure 136. Small cell testing room, third floor, Building 5, north side, looking east, ca.1910.

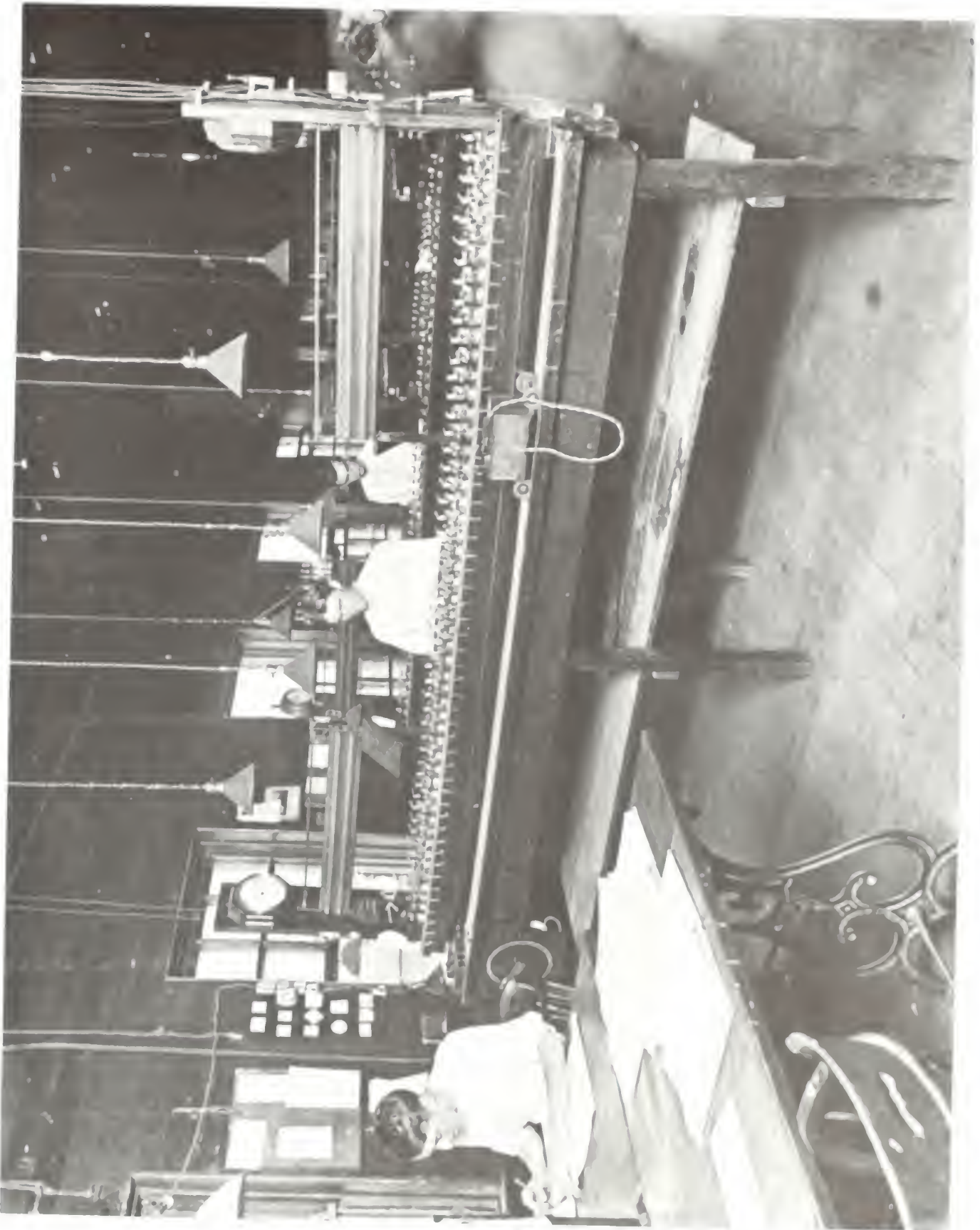


Figure 137. Third floor, adjoining music room, Building 5, south side, looking west, ca.1910. Photo no. 10.389/30, neg. no. 6891.

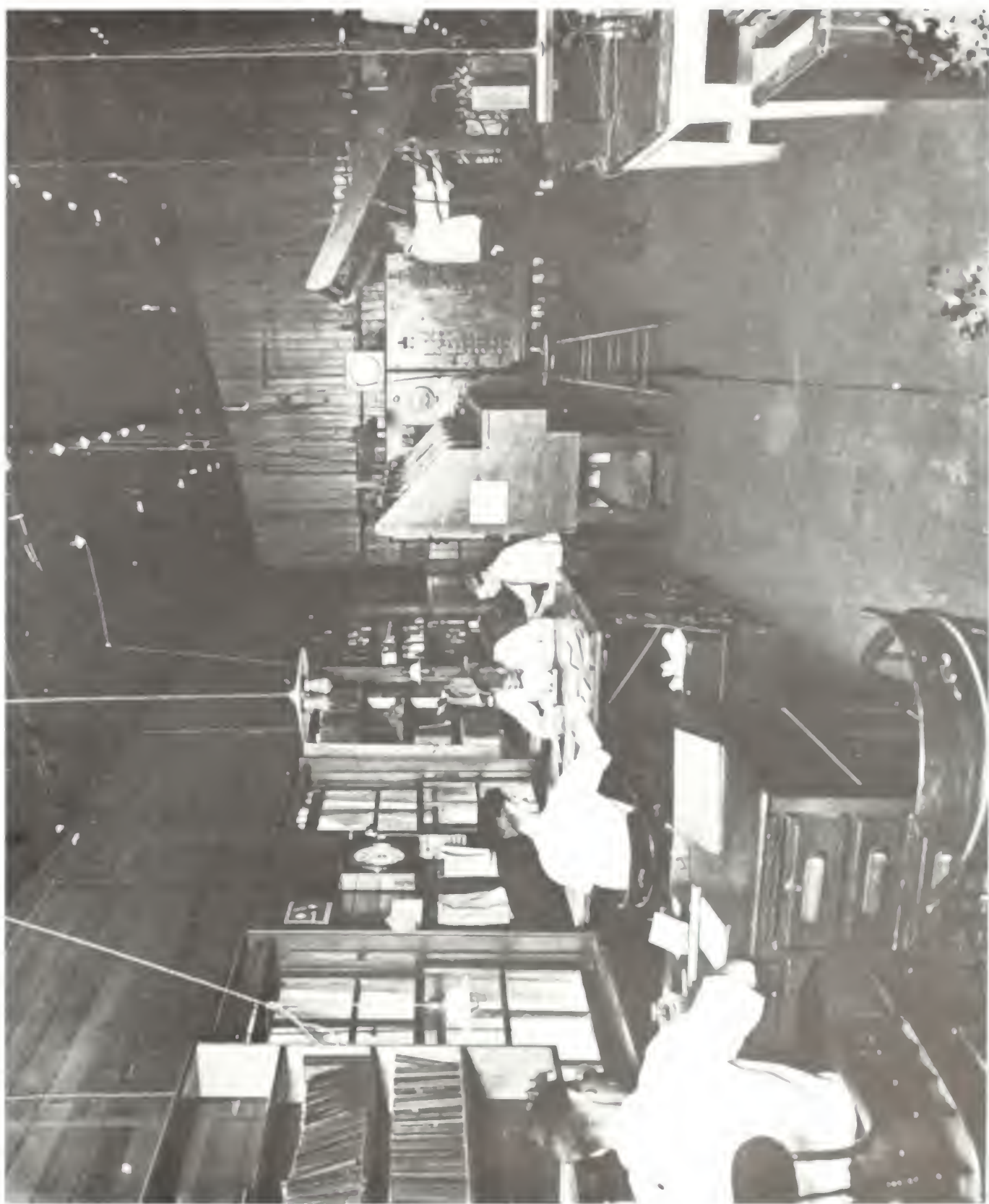


Figure 138.

Phonograph speaker experimental room, third floor, Building 5, southeast corner, September 23, 1911. Photo no. 29.410/3, neg. no. 480.



Figure 139. Phonograph testing room, third floor, Building 5, northwest corner, 1911-1912. Photo no. 14.655/14, neg. no. 984A.



Figure 140.

Charles Dally, third floor, Building 5, looking southwest,
February 1913. Photo no. 10.133/17, neg. no. 6982.



Figure 141. Third floor, Building 5, north side, looking east, 1914. Photo no. 10.389/18, neg. no. 2664.

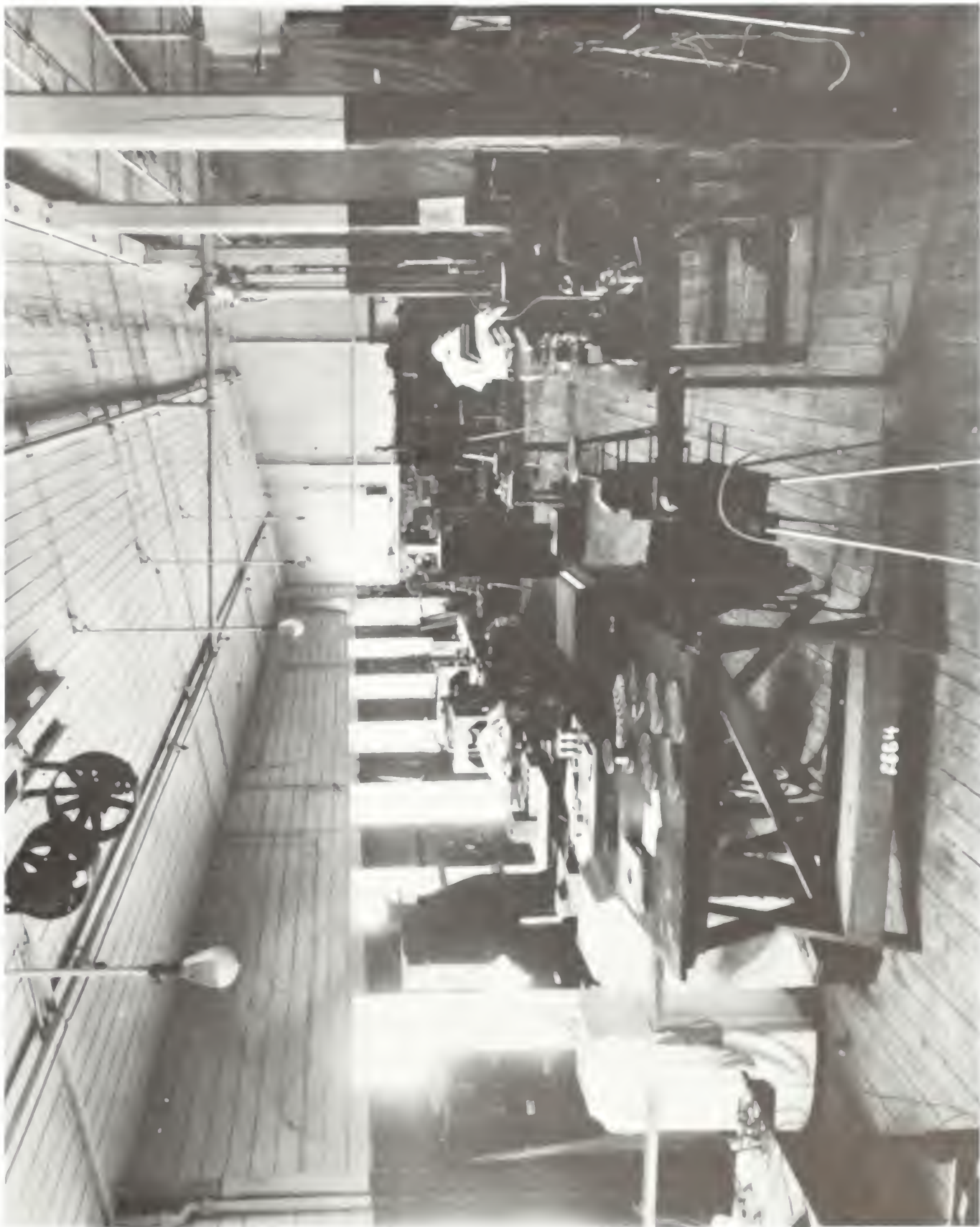


Figure 142.

Fred Ott's room, third floor, Building 5, southwest corner, April 1914. Photo no. 10.389/32, neg. no. 2668.



Figure 143.

Music room, third floor, Building 5, looking west, 1917. Photo no. 10.389/21, neg. no. 9269/4632.



Figure 144. Bill Lyman, Photographic Service Department, third floor, Building 5, looking south, January 1917. Photo no. 10.389/34, neg. no. 4663.



Figure 145. Ground plan of dynamo room, Building 6, 1889.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

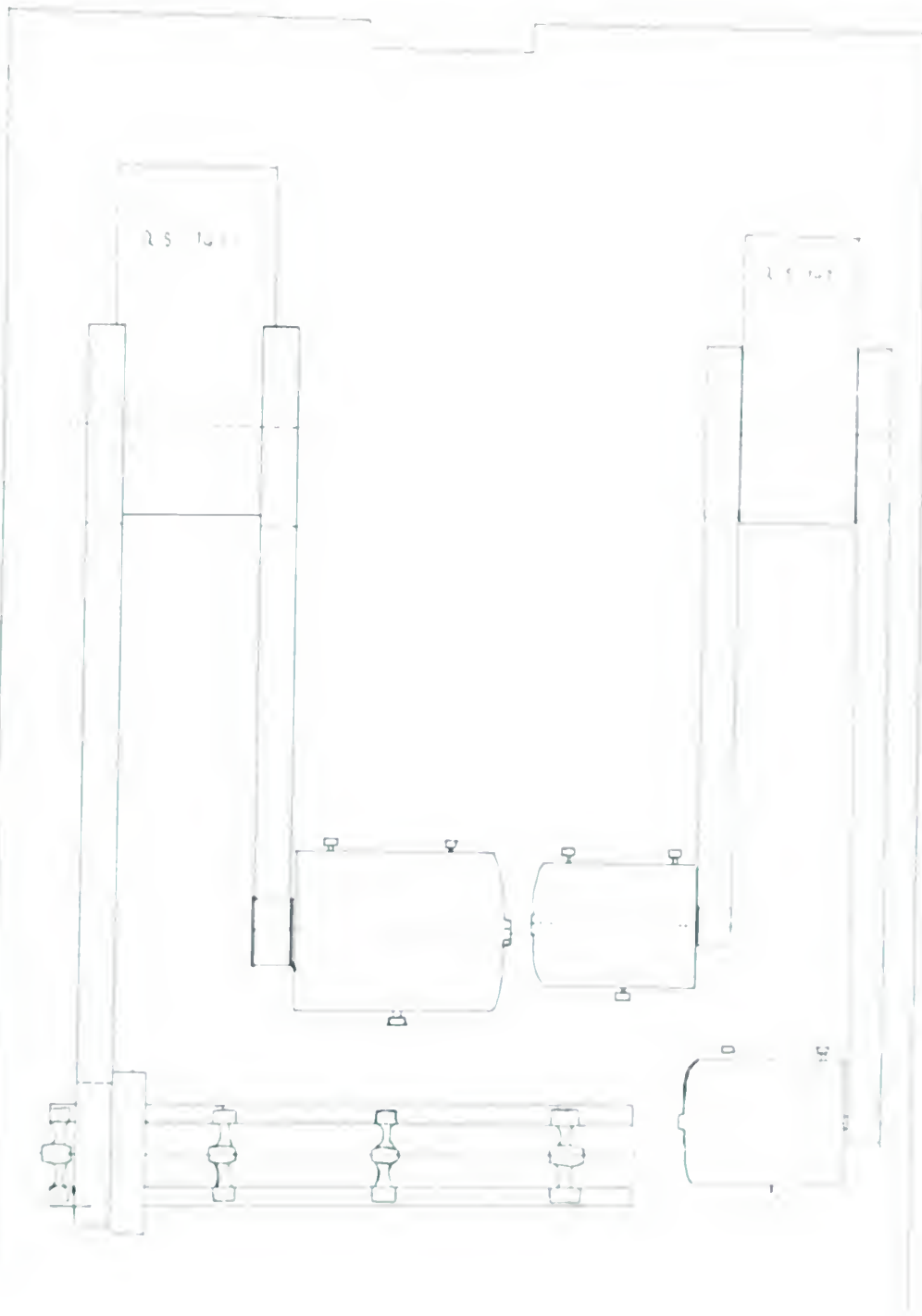


Figure 146. Dynamo room, Building 6, ca.1890. Photograph by W.K.L. Dickson. Photo no. 15.400/1, neg. no. 6885.

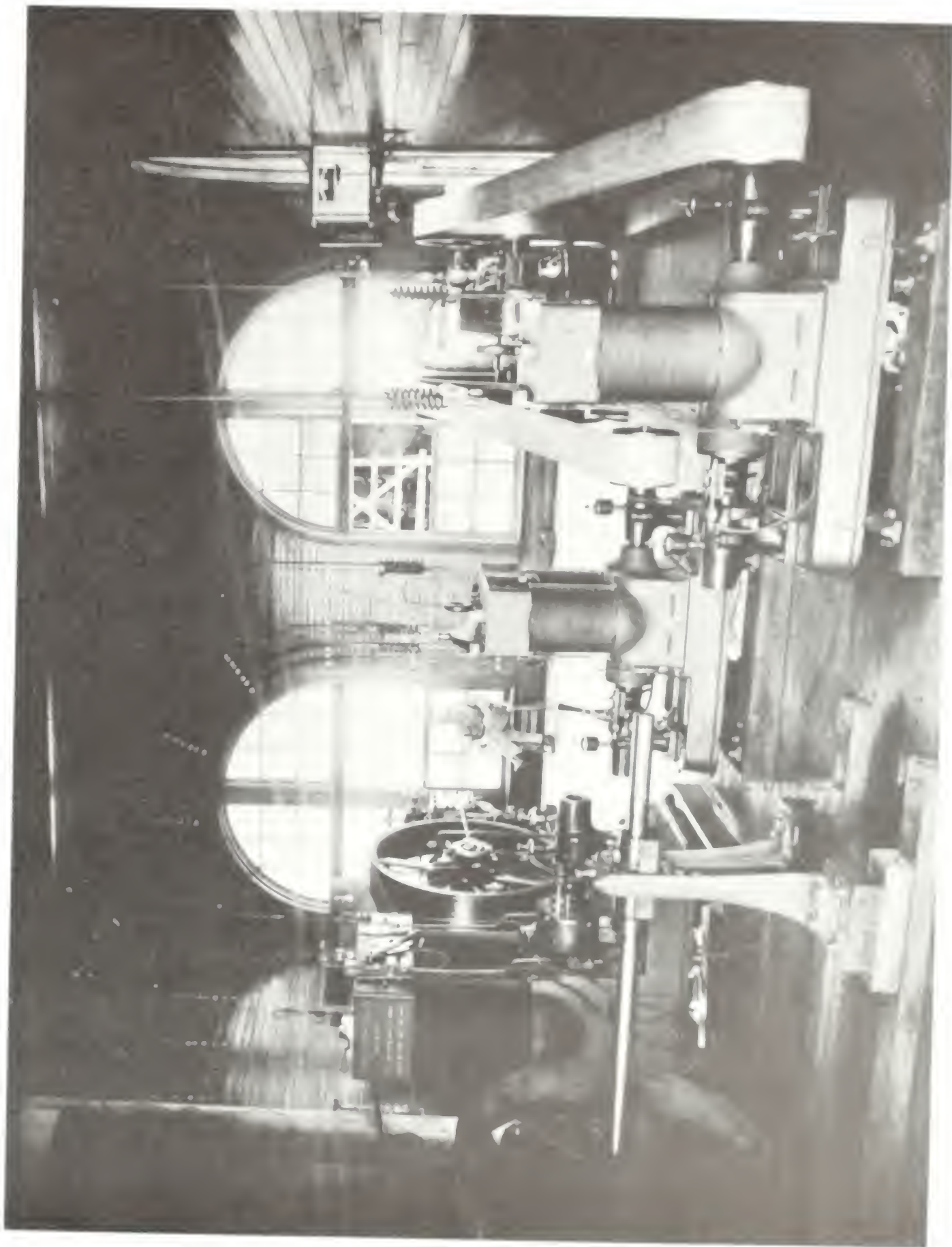


Figure 147. Dynamo room, Building 6, date unknown. Photo no. 15.400,
neg. no. 6884.



Figure 148.

Gatehouse, 1890-1892. Photograph by W.K.L. Dickson. Photo no. 10.381/5, neg. no. 0-1038.



Figure 149. Gatehouse, 1902-1903. Photograph by J.V. Miller. Photo no. 10.350/15, neg. no. 6157.



Figure 150. Gatehouse, January 6, 1917. Photo no. 10.380/11, neg. no. 4637.



Figure 151. Edward K. Cary, National Park Service guide and former Edison employee, at souvenir stand inside gatehouse, April 22, 1969. Photo no. 12.450/177, neg. no. N-6874.



APPENDIXES

- Appendix A: Condensed Catalogue of the George F. Kunz Mineral Collection (p. 625)
- Appendix B: 1914 Chemical Laboratory Inventory (p. 629)
- Appendix C: 1913 Heavy Machine Shop Inventory (p. 706)
- Appendix D: 1913 Precision Machine Shop Inventory (p. 713)
- Appendix E: 1920 Pattern Shop, Heavy Machine Shop, and Precision Machine Shop Inventories (p. 722)
- Appendix F: Machinists' Tools and Tool Chests (p. 757)

APPENDIX A

Condensed Catalogue of the George F. Kunz Mineral Collection

735 - LUNZ

(1889-12-11)

GEORGE L. ENGLISH
EDWIN C. ATRINSON

OFFICE OF
GEO. L. ENGLISH & CO.,
DEALERS IN MINERALS,
1612 Chestnut Street.

CABLE ADDRESS
ENGLISH PHILADELPHIA

Philadelphia, Pa., U. S. A.

Condensed Catalogue of the Geo. F. Kunz Mineral Collection

I Native Elements:

| | |
|-----------------|--|
| Gold | 23 good specimens, showing associated minerals and variations of occurrence in many different localities |
| Silver | 8 characteristic specimens |
| Platinum | 1 spec. Brazil |
| Mercury | 2 spec. |
| Copper | 20 good spec's |
| Arsenic | |
| Antimony | 6 spec. 2 extra large |
| Nickelinite | 2 spec. |
| Bismuth | |
| Tellurium | |
| Sulphur | 3 spec. |
| Diamond (Black) | 2 spec. |
| Peridot | (Humboldt) 4 spec. |
| Graphite | 7 spec. |

II Sulphides, Tellurides, Selenides, Arsenides, Antimonides, Bismuthides:

| | |
|--------------|---|
| Realgar | 6 spec. from 8 localities |
| Copernite | 3 spec. |
| Stibnite | 2 spec. 1 large mass 5 1/2 x 4 |
| Bismuthinite | |
| Molybdenite | 6 spec. |
| Linneite | |
| Argentite | large spec. |
| Telluride | about 5 spec. a very full illustration of bismuthian and forms of the group |
| Zincite | |
| Bohmite | |

| | |
|----------------|--|
| Alabandite | 2 spec. |
| Sphalerite | abt 60 spec. including both old & massive spec. to 10 lbs. can probably illustrate, but some removed. associated minerals and various localities |
| Chalcocite | 6 spec. |
| Cinnabar | 6 spec. one extra large |
| Millerite | 4 spec. |
| Pyrrhotite | 3 spec. 2 large masses |
| Greenockite | 4 spec. |
| Wickström | |
| Pyrite | abt 18 trays of spec. a good kind |
| Chalcopyrite | 11 spec. including old and large massive spec. |
| Stannite | 2 spec. one extra large |
| Zinnwite | |
| Smaltite | |
| Cobaltite | |
| Feinsdorffite | |
| Kerassite | abt 13 spec. one exceptional, fine series |
| Leucopyrite | large spec. |
| Arsenopyrite | 8 spec. several large masses |
| Sylvanite | |
| Aggagite | |
| Covellite | |
| Stegannite | |
| Jamesonite | |
| Freieslebenite | large rich mass half 1 lb. |
| Stromeyerite | 2 spec. |
| Frederickite | |
| Stromeyerite | 2 spec. |
| Stromeyerite | |

OFFICE OF
GEO. L. ENGLISH & Co.,
DEALERS IN MINERALS,
1512 Chestnut Street,
CABLE ADDRESS,
ENGLISH, PHILADELPHIA

— 2. —

Philadelphia, Pa., U. S. A.

| | | | |
|---|--|---------------------------|--|
| Enargite | | Cassiterite. | 15 spec. a very complete series
x'ed spec. & large masses |
| III. Compounds of Chlorine,
Bromine & Iodine | | | |
| Halite. | large spec. | Rutile. | 13 trays |
| Sal Ammoniac | large spec. | Octahedrite. | 9 spec. |
| Cerargyrite. | 2 spec. | Hausmannite. | |
| Embolite. | large spec. | Brookite | 7 trays |
| Bohdanckite | | Pyrolusite | |
| | | Göthite. | 4 spec. large |
| | | Manganite. | 5 spec. |
| | | Limonite. | 18 spec. |
| | | Brucite | 7 spec. |
| IV. Fluorine Compounds | | | |
| Fluorite | 28 spec. x'ed & large masses | Gibbsite. | |
| Ytrocrite | 5 spec. | Gummite. | |
| Cryolite | large spec. | Had (hendrite) | 2 spec. |
| | | Senarmontite | |
| V. Oxygen Compounds | | | |
| I. Binary Oxygen Compounds | | | |
| Cuprite | 11 spec. | Quartz } | a very large and complete
series of both species,
including recent & antique. |
| Zincite. | 5 spec. | Opal } | |
| Calcozomite | | Tertiary Oxygen Compounds | |
| Melacconite. | large spec. | II. Silicates. | |
| Corundum. | abt. 10 spec., very fully illustrating
localities, associations, &c. and
including a strong series of the
remarkable alterations described
by Dr. A. P. Genth. | Hollastonite. | 4 spec. |
| Hematite. | 13 spec. several large masses
also well x'ed spec. | Violan. | |
| Martite. | | Pyroxene } | abt. 125 spec., a very complete
series |
| Menaccanite. | 2 spec. | Amphibole } | |
| Perovskite | 2 trays | Rhodonite. | 7 spec., including large
masses & x'ed. |
| Spinel. | 10 trays | Spodumene | 4 spec. |
| Salmite. | 4 spec. | Afredsonite. | 2 trays. |
| Magnetite. | 6 spec., including large masses | Crocidolite | abt. 50 spec., a fine series
showing all stages of altera-
tion to Quartz, &c. |
| Franklinite | 7 spec. " | Eastalddite | |
| Chromite. | 3 spec. " | Beryl. | 34 spec. |
| Uraninite. | | Endialyte. | |
| Chrysoberyl. | | Pollucite. | |
| Monandrite | | Phlemite. | |
| | | Phenacite. | 5 spec. |
| | | Garnet. | abt. 8 spec., authority onite. |

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1612 CHRISTIAN STREET

CARE & ADDRESS
ENGLISH PHILADELPHIA

— 3. —
Philadelphia, Pa. U. S. A.

GEORGE L. ENGLISH
EDWIN A. TRINSON

| | | | |
|------------------|-----------------------------------|-----------------------|----------------------------|
| Jade | 12 trays, large mass | Thorite | |
| Zeolite | 13 spec | Cerite | |
| Epistote | 11 spec, 1 large mass | Gale | 10 spec |
| Albite | 6 spec | Serpentine | 10 |
| Forsterite | | Malachite | 1 |
| Indolinite | 2 spec - 1 large mass | Malachite, Columbite | 6 |
| Mossandrite | | Hydroxide | |
| Leucite | | Trinitite | |
| Stannite | | Columbite | 3 spec |
| Lambertite | 2 spec | Tamarckite | |
| Isotite | | Wadite | |
| Mica Group | abt. 88, including full series | Aschynite | |
| Mercurite | 11 spec | Polyerite | |
| Canerite | 3 large spec | Argonite | |
| Sodalite | 5 spec, 2 large | Phosphates, Arsenates | |
| Lapis Lazuli | 11 spec | Isotite | abt. 25 spec |
| Amethyst | | Synanthropite | 5 spec |
| Leucite | 2 spec | Thomsonite | |
| Orthoclase Group | abt 6 spec, a good series | Monazite | 2 spec |
| Chondrodite | 11 spec | Turnerite | 2 |
| Journaline | abt 35 spec | Trochylite | |
| Andalusite | 4 spec | Lithiophyllite | |
| Triclinite | | Trochylite | |
| Cyanite | 11 spec | Amiblygonite | 5 spec |
| Topaz | abt 15 spec | Herderite | 6 |
| Enstatite | | Bronzite & Actinolite | |
| Epistote | | Zeolite | 3 spec |
| Isotite | 10 spec | Erythrite | |
| Isotite Group | abt 12 spec, a very strong series | Clavite | 4 spec |
| Stannite | 5 spec | Pseudomalachite | |
| Scharlachite | | Chloroclasite | |
| Eulyptite | | Chalcophyllite | |
| Diopside | | Lazulite | |
| Chrysocolla | 11 spec | Travertine | 11 spec |
| Calumet | 21 spec | Tharrosandrite | 2 |
| | | Chalcosandrite | 2 |
| | | Pyrochlore | abt 30 spec, a good series |
| | | Variscite | |
| | | Chrysomel | |
| | | Isotite | |

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DEALERS IN MINERALS,
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CABLE ADDRESS
ENGLISH PHILADELPHIA

Philadelphia, Pa., U. S. A.

GEORGE L. ENGLISH
EDWIN C. ATKINSON

— 4 —

4. Borates.

Boracite.
Borax
Ulexite.
Harwickite.

5. Tungstates, Molybdates,
and Vanadates.

Tolframite.
Hübnerite.
Megabasite.
Stulpenite.
Descloisite.
Vanadinite.
Pucherite.

6. Sulphates, Chromates.

Barite.
Celestite.
Anhydrite.
Anglesite.
Crocoite.
Gypsum.
Chalcanthite.
Linarite.
Brochantite.
Langite.

7. Carbonates.

Calcite.
Dolomite.
Ankerite.
Magnesite.
Siderite.
Rhodochrosite.
Smithsonite.
Azaronite.
Kitherite.
Strontianite.

6 spec.

2 spec.

5 spec.

abt. 60 spec.; a strong series

abt. 13 spec.

abt. 30 spec.

Cerussite.
Barytoceleite
Hydromagnesite
Zaratite.
Aurichalcite.
Malachite
and
Azurite }

abt. 30 spec.; a good suite

VI. Hydrocarbon Group. 1 drawer

Large Specimens:

In addition to the drawer specimens above enumerated, numbering about 3500, there are also several superb cases of large museum specimens including fine groups of crystals of Stibnite, Calcite, Quartz, Amethyst, Fluorite, Topaz, Marcasite, Galenite, Azurite, Garnet, Amazon Stone, Chalcocypite, Smoky Quartz, Stulpenite, Barite, Titanite, Sphalerite, Calamine, &c., &c.; also several fine large cut Azurite, Crystal & Crocidolite Bullseyes. If mounted in open cases, these large specimens could not fail to be a most attractive feature in your library.

Gems and Gem Stones:

A very choice little collection of cut and uncut gems accompanies the Mineral Collection.

Price: \$8000.

APPENDIX B

1914 Chemical Laboratory Inventory

1

CHEMICAL LABORATORY

Balance Room

April 1914

Cupboard #1.

| Trade No. | Article | Size | Quantity | Value |
|-----------|---------------------------|--------------------------|----------|--------|
| 116 | Air Tester | | 1 | 3.50 |
| 856 | Boate, porcelain | 6 c.m. | 2 | .50 |
| " | " | 11 " | 3 | .90 |
| 1210 | Brushes, Test Tube | | 2 | .20 |
| 1250 | Bulb, Geisslers | (1) See Page # | | |
| 1258 | " | (1) " " " | | |
| 1508 | Burner | 1 | | .25 |
| " | " | 1 | | 3.00 |
| 1752 | Carbonic Acid Deter | 1 | | 1.90 |
| | Copper C.P. Foil | 120 Gr. at .40 lb. | | .10 |
| 2354 | Crucibles (Fused Silica) | | | |
| " | " | C O.O. @ .60 | 2 | 1.20 |
| " | " | C O. @ .60 | 3 | 1.80 |
| " | " | C 1 @ .75 | 3 | 2.25 |
| " | " | C 2 @ .70 | 3 | 2.70 |
| " | " | C 3 @ 1.25 | 2 | 3.75 |
| " | " | C 2 covers " .75 | 3 | 2.25 |
| " | " | C 1 " " " | 1 | .75 |
| " | " | C O O " .50 | 1 | .50 |
| 5328 | " | (Platinum) | | |
| " | " | 18.5 | 1 | 31.50 |
| " | " | 24.5 | 1 | 42.60 |
| " | " | 39 | 1 | 60.25 |
| 5334 | " | (Gooch) 17 g. | 1 | 29.75 |
| 5340 | " | (Dish) 57.5 | 1 | 100.60 |
| 5364 | " | Anode 18.5 g. | 1 | 36.50 |
| 5324 | " | Cone 2.5 | 1 | 4.35 |
| 5328 | " | Lid 5.5 | 29.60 | 19.20 |
| 2368 | " | Silver Lid 135 G. | 1 | 13.00 |
| 5328 | " | 45 g. | 1 | 78.75 |
| " | " | 12.5 | 1 | 21.80 |
| 2648 | Dishes (Evaporating) | 51 m.m. Dia. (1) | | 1.00 |
| " | " | 83 " " " (1) | | 1.25 |
| " | " | 100 " " " (1) | | 1.60 |
| | Disc Platinum, per 5 g. | | | .88 |
| 3258 | Funnel (Rubber) | 8 oz. cap | 2 | 1.00 |
| 4012 | Hydrometer (Gasolene) | | 1 | .75 |
| 3918 | " | 800-900 | 1 | 1.15 |
| " | " | 1200-1400 | 2 | 2.50 |
| " | " | 900-1000 | 1 | 1.25 |
| " | " | 1000-1200 | 2 | 2.50 |
| 1080 | Pycnometer | 25 c.c. | 1 | 2.60 |
| 1074 | " | 10 " " @ .70 | 3 | 2.10 |
| 1084 | " | 100 " " " | 1 | 3.10 |
| 1092 | " | 25 " " @ .50 | 2 | 1.00 |
| 2076 | Pinch-cocks (small) | @ .20 | 5 | 1.00 |
| " | " | (medium) @ .30 | 11 | 3.30 |
| " | " | (large) @ .40 | 6 | 2.40 |
| 5232 | Pipette, listed on page # | | | |
| | Platinum Scrap | 21 g. @ 1.75 | | 36.75 |
| " | " | wire 1/32 1.5 | | 2.00 |
| | Rubber Stoppers | 0.0 to 10" 6 lbs. @ 2.00 | | 12.00 |
| #10 | " | " | 6 | 1.10 |
| #11 | " | " | 12 | 6.00 |
| 2240 | " | Funnel 8 oz. Cap. | 1 | 1.00 |

-2-

563 35

| | | | |
|------|---------------------------------|---|-------|
| 6052 | Rubber Tubing, pure gum 9 ft. | | 1.08 |
| 6050 | " " , white 1 lb. | | .70 |
| 7282 | Sacchrameter (Johnstein) | | 1.75 |
| 6274 | Spatula 20 c.m. @ 90 | 2 | 1.80 |
| " | " 10 " " | 2 | .50 |
| 6292 | Spectroscope (Hand) | 1 | 16.50 |
| 6766 | Thermometer 100-200 c. | 1 | 9.50 |
| 6992 | Triangles - Listed on Page # | | |
| 7118 | Tube U listed on page | | |
| 7114 | " " " " " | | |
| 7294 | Ureometer (Doremus) | | 1.25 |
| 392 | " Scales 5" Beam | | 3.00 |
| " | " " 6" " | | 1.65 |
| 7382 | Watch glasses, Listed on page # | | |
| | Wire, Spool C. P. Iron | | .30 |

35.00
601 41

FLASKS.

| Trade no. | Size. | Quantity | Value. |
|---------------|--------------|----------|--------|
| 3032 | 250 c.o. Cap | 3 | 2.25 |
| 3170 | 1 L " | 1 | 1.00 |
| 3134 | 1 " " | 8 | 8.00 |
| " | 500 c.c. " | 11 | 8.90 |
| " | 250 " " " | 6 | 3.00 |
| " | 200 " " " | 5 | 2.50 |
| " | 100 " " " | 4 | 1.12 |
| 3132 | 1 L " " " | 2 | 1.60 |
| " | 500 " " " | 2 | 1.60 |
| " | 50 " " " | 1 | .20 |
| " | 1000 " " " | 2 | 1.60 |
| 3038 | 2000 " " " | 6 | 4.80 |
| " | 1000 " " " | 4 | 2.32 |
| " | 500 " " " | 3 | 1.14 |
| " | 200 " " " | 7 | 1.54 |
| " | 100 " " " | 2 | .63 |
| " | 3000 " " " | 1 | 1.00 |
| " | 150 " " " | 1 | .20 |
| 3090 | 500 " " " | 4 | 1.60 |
| " | 1 L " " " | 1 | .60 |
| 3016 | 250 " " " | 2 | .40 |
| 3112 Kjeldahl | 200 " " " | 2 | .86 |
| " | 100 " " " | 1 | .12 |
| " | 50 " " " | 1 | .08 |
| 3016 | 500 " " " | 2 | .50 |
| " | 250 " " " | 5 | 1.00 |
| " | 125 " " " | 2 | .15 |

45 60

| Trade no. | Size | Quantity | Value. |
|-----------|----------------|----------|--------|
| 3022 | 100 o. in Cap. | 1 | .12 |
| " | 150 " " " | 13 | 1.97 |
| " | 175 " " " | 3 | .74 |
| " | 250 " " " | 6 | 1.20 |
| " | 350 " " " | 9 | 1.98 |
| " | 500 " " " | 9 | 2.25 |

Distilling Flasks

| | | | |
|------------|---------------|----|------|
| 3060 | 60 c. in Cap. | 2 | .40 |
| " | 125 " " " | 5 | 1.25 |
| " | 250 " " " | 6 | 2.10 |
| " | 500 " " " | 4 | 1.80 |
| " | 1000 " " " | 5 | 3.15 |
| 3076 | 250 " " " | 1 | .70 |
| 3050 R. B. | 125 " " " | 12 | 1.50 |
| " | 250 " " " | 2 | .40 |
| " | 500 " " " | 5 | 1.25 |

12 95

Drying Tubes.

| | | | |
|------|-----------|-----------------|------|
| 7110 | Pellipots | 4" - (2) | .50 |
| 7106 | Drying | 10" (2) | .80 |
| " | " | 6" (1) | .18 |
| 7118 | " | 5" (3) | 3.60 |
| " | " | 4" (1) | 1.00 |
| 7114 | " | 4" (1) | .35 |
| " | " | 6" (1) | .60 |
| 7052 | " | 5" (4) | .36 |
| 7044 | " | Shape B --- (6) | .15 |

Condensers - Leibig's.

| | | | |
|------|-----|-----|--------|
| 2238 | 25" | (2) | \$3.20 |
| " | 12" | (2) | 2.00 |
| " | 10" | (2) | 1.70 |
| 2242 | 10" | (1) | 1.70 |
| 2244 | 14" | (1) | 1.75 |
| 2246 | 15" | (1) | 1.65 |

| | | | |
|------|-------------------|-----|------|
| 2252 | 15" | (1) | 2.80 |
| 2280 | without stop-cock | (1) | 1.00 |
| 2242 | 8" | (1) | .75 |

Funnels

16.55

| Trade no. | Size | Quantity | Value |
|-----------|---------------------|----------|-------|
| 3232 | 4 1/8" dia. | 18 | 2.16 |
| " | 10 1/2" " | 4 | 2.80 |
| 3244 | 1/2 Gal. Iron | 1 | .40 |
| 3214 | 2 1/2 o. in | 30 | 2.00 |
| " | 4 " | 24 | 1.80 |
| " | 5 " | 17 | 1.36 |
| " | 6 1/2 " | 12 | 1.10 |
| " | 7 1/2 " | 16 | 1.83 |
| " | 9 " | 2 | .28 |
| " | 10 " | 8 | 1.28 |
| 3258 | 4 oz. Rubber | 2 | .80 |
| 3254 | 15c. in. Suction | 2 | 4.90 |
| " | 7 1/2 " " | 1 | .90 |
| " | 10 c. in. | 1 | 1.50 |
| 3294 | Separatory 1 L. Cap | 2 | 5.00 |
| " | " 600 c.c. | 1 | 2.00 |
| " | " 250 " " | 2 | 3.20 |
| 3286 | " 500 " " | 3 | 5.40 |
| " | " 175 " " | 3 | 4.05 |
| " | " 125 " " | 2 | 2.50 |
| 3316 | Thistle 30 " " | 9 | .72 |
| 3324 | Safety 1 Bulb | 8 | 2.00 |
| 3330 | " 2 " " | 1 | .25 |
| 3318 | " 40 c. m. | 1 | .110 |
| 3322 | " ---- | 1 | .25 |

Graduated Cylinders.

48.45

| | | | |
|------|-------------------------|-----|------|
| 2512 | 1000 c.c. | (2) | 4.40 |
| " | 500 c. c. | (2) | 2.20 |
| 2496 | Dia. 2" Heights 12"-15" | (2) | 1.10 |
| 2512 | 10 c. c. | (1) | .30 |
| 2802 | 232 oz. cap. | (2) | 2.20 |
| 2514 | 50 c. c. | (2) | 1.10 |
| " | 10 c. c. | (1) | .35 |
| " | 500 c. c. | (1) | 1.25 |
| " | 100 c. c. | (2) | 1.40 |
| 2522 | 1000 c. c. | (1) | 2.50 |

16.50

Burettes

| | | | |
|------|------------|-----|-------|
| 6550 | " supports | (5) | 12.50 |
| 1320 | 50 c.c. | (1) | 6.50 |
| 1328 | 50 c.c. | (3) | 7.50 |
| " | 25 c.c. | (2) | 4.00 |
| " | 100 c.c. | (1) | 3.00 |
| " | 100 " | (5) | 12.50 |
| " | 100 " " | (1) | 2.50 |

48.50

Pipette

| | | | |
|------|-------------|-----|------|
| 5232 | 10 c.c. cap | (7) | 1.40 |
| " | 5 c.c. cap | (8) | 1.20 |
| " | 20 " " | (6) | 1.50 |
| " | 10 " " | (8) | 3.00 |
| " | 25 " " | (5) | 1.50 |
| " | 50 " " | (9) | 3.60 |

-3-

| | | | |
|------|----------------|------|------|
| 5232 | 100 o. c. cap | (1) | 1.50 |
| " | 1 o. c. " | (4) | .40 |
| " | 2 o. c. " | (3) | .30 |
| 5240 | 25 o. c. Grade | (1) | .70 |
| " | 10 o. c. " | (11) | .50 |

Woulff Bottles

| | | | |
|------|---------------|---|------|
| 1156 | 250 o. c. cap | 7 | 3.15 |
| " | 115 o. c. cap | 1 | .40 |
| 1158 | 1 L | 2 | 2.00 |
| " | 500 o. c. " | 1 | .65 |
| " | 125 o. c. " | 2 | .90 |

Aspirator

| | | | |
|-----|-----|---|-----|
| 990 | 1 L | 1 | .70 |
|-----|-----|---|-----|

Bell Jars.

| | | | |
|------|---------|-----|------|
| 4112 | 3 x 6 | (2) | 1.00 |
| 4120 | 8" dia. | (3) | 6.00 |
| " | 12" " | (1) | 2.00 |

Bulbs

| | | | |
|------|---------------|-----|------|
| 1218 | no cap. | (3) | 1.50 |
| 1226 | 125 o. c. cap | (1) | .50 |
| 1250 | Geisslers | (1) | .80 |
| 1258 | " | (1) | 1.50 |

Beakers

| | | | |
|-----|--------------|----|------|
| 700 | | | |
| " | 50 o. c. cap | 1 | .06 |
| " | 100 " " | 3 | .30 |
| " | 150 " " | 1 | .12 |
| " | 200 " " | 8 | 1.44 |
| " | 300 " " | 9 | 1.26 |
| " | 450 " " | 11 | 3.30 |
| " | 1200 " " | 10 | 5.00 |
| " | 1 L " " | 2 | 1.00 |

RETORTS

| Trade No. | Size | Quantity | Value |
|-----------|--------------|----------|-------|
| 5982 | 500 c.c. Cap | 2 | .90 |
| " | 1 L " " | 2 | 1.20 |
| " | 2 L " " | 3 | 3.75 |
| 5976 | 750 " " | 3 | 1.35 |
| | | | 7.20 |

MORTARS (Porcelain)

| | | | |
|------|-------------|---|-------|
| 4630 | 2" dia. | 1 | .20 |
| " | 3" " | 2 | .90 |
| " | 4 1/2" dia. | 3 | 1.95 |
| 4632 | 6" " | 1 | 1.10 |
| - | 8" Iron | 1 | 9.00 |
| | | | 13.15 |

Balance.

| | |
|---|--------|
| Troemmer Balance comp. #226 (1) | 125.00 |
| Specific gravity Balance comp. #412 (1) | 20.00 |

145.00

Microscope.

Binnular Microscope R. & J. Beck London (1)

Gas Apparatus.

| | |
|--------------------------------------|-------|
| 3534 (Loaned to Ed. Chem. Works) (2) | 40.00 |
| 3576 Gas pipette | 3.00 |
| 5260 pipette (Bottles) (1) | 15.00 |

58.00

Miscellaneous

| | |
|-----------------------------|------|
| 2522 Cylinder 200 c.c. Cap. | 2.90 |
|-----------------------------|------|

226.25

Balance Room Cupboard #2.

| Article | Size | Quantity | Value |
|-----------------------------|------|-----------|--------|
| Antimony | | 700 Gr. | .40 |
| Cerium Nitrate | | 30 " | .30 |
| Chromium (Let.) | | 140 " | 1.00 |
| Cobalt (Metal) | | 1 lb. | .10 |
| Cobalt (reduced by oxygen) | | Sample | |
| Colloidal (Iron Oxide) | | Sample | |
| Congo Red | | 100 Gr. | 1.00 |
| " " Paper | | 1 quire | .10 |
| Curare (Merck) | | 10 Gr. | 12.00 |
| Eikonogen | | 1 lb. | 1.40 |
| Erbium Oxide | | 5 gr. | 1.00 |
| Gold Leaf | | 1 m.g. | .25 |
| Glycin - Hauff | | 1 oz. | .05 |
| Iodine | | 1 lb. | .02 |
| Iron Metavanadate | | Sample | |
| Lanthanum Nitrate | | 105 Gr. | 11.00 |
| Lithmus Paper | | 2 quires | .50 |
| Magnesian Metal | | 1 lb. | 2.50 |
| Manganese " | | 1 lb. | .30 |
| Metallic Cesium | | 1 Gram. | 4.00 |
| Metallic Silicon | | 2 oz. | .30 |
| Mercury Oxide (Red) | | 1 lb. | 1.60 |
| Methylorange Indicator | | 1 oz. | .23 |
| Micro-objective 1/5 | | (1) | |
| " Polarizer | | (1) | |
| Molybdenite | | Sample | |
| Neodymium Nitrate | | 130 Gr. | 145.55 |
| Nitrous B | | 1 oz. | .75 |
| Orange 111. Tropaeolin D | | 1 oz. | .25 |
| Ortol | | 4 1/2 oz. | 2.75 |
| Osmic Acid | | 100 m.g. | .20 |
| Phenolphthalein | | 100 grs. | .80 |
| Platinum Sponge Gas-lighter | | (4) | 3.00 |
| Praseodymium Nitrate | | 40 Gr. | 80.00 |
| Protection Glasses | | 1 pr. | 1.00 |
| Pure Metals (sample) | | 1 case | |
| Rutil | | 1 lb. | .07 |
| Selenium | | 300 Gr. | 5.37 |
| Selenium Dioxide | | 225 " | 32.00 |
| Silver Nitrate Cryst. | | 180 oz. | 77.25 |
| Silver Sulphate (Merck) | | 3 dr. | .46 |
| Sod Tellurate | | 114 Gr. | 114.00 |
| Spermine (Sample) | | 6 pcs. | |
| Tellurium Metal | | 550 Gr. | 13.00 |
| Tellurium dioxide | | 10 " | 13.00 |
| Thorium Nitrate | | 300 " | 6.60 |
| Tropaeolin | | 1 oz. | .25 |
| Tumeric | | 1 oz. | .25 |
| " Powder | | 1 oz. | .5 |
| Tungsten (Sample) | | | |
| Yttrium Chloride | | 5 gr. | .30 |
| Yircon | | 3 oz. | .5 |
| Zirconium Nitrate | | 45 Gr. | .90 |

1623-77

8

Reserve Stock - New Order
received from Eimer & Amendt.
April 24, 1914.

| Trade No. | Article | Quantity | Value |
|-----------|-----------------------------|----------|-------|
| | Potassium Formate | 1/2 lb. | 1.20 |
| | Soda Sulph Anilate | 1/2 " | 3.84 |
| | Sodium & Potassium Sulphate | 1/2 " | .32 |
| | Ferro Cyanide | 1/2 " | .90 |
| | Sodium Bromate | 1/2 " | 2.10 |
| | " Glycero Phosphate | 1/2 " | 1.20 |
| | Amonium Carbonate C.P. | 1 " | .40 |
| | Litmus C.P. | 1 oz. | .30 |

11.25

PLACED IN BALANCE ROOM CLOSET #11

| | | | | |
|------|--------------|-------------|-------------|------|
| 4970 | Filter Paper | 12 packages | 12 1/2 o.m. | 2.16 |
| | " " | 12 " | 15 " " | 2.64 |
| | " " | 12 " | 19 " " | 3.00 |

7.50

GLASSWARE CLOSET #1

| | | | | |
|------|---------------------|----------|---|-------|
| 3134 | Flasks | 250 o.o. | 3 | 1.50 |
| 2514 | Granulated Cylinder | 50 " " | 6 | 3.30 |
| | " " | 100 " " | 6 | 4.20 |
| | " " | 200 " " | 6 | 5.10 |
| | " " | 500 | 6 | 7.50 |
| | " " | 1000 | 6 | 14.70 |

36.50

TUBING CUPBOARD #1

| | | | |
|------|--|--------|-------|
| 6046 | Rubber Tubing 3/8" | 10 ft | 1.50 |
| 6066 | " " 1/4" | 6 " | 2.16 |
| 7382 | Watch Glasses 3" | 2 doz. | 1.30 |
| " | " " 4" | 2 " | 2.00 |
| " | " " 5" | 2 " | 3.50 |
| " | " " 6" | 2 " | 4.80 |
| 6730 | (Thermometers 360 o.
(Fouble gra.) 680 f. | 6 | 15.00 |

30.21

CLOSET #7 (BALANCE ROOM)

| | | | | |
|------|------------|--------|----|------|
| 1764 | Casseroles | 5 o.m. | 12 | 4.20 |
|------|------------|--------|----|------|

Reserve Stook - New Order

received from Elmer & Amanda.

April 24, 1914.

| Trade No. | Article | Quantity | Value |
|-----------|-----------------------------|----------|-------|
| | Potassium Formate | 1/2 lb. | 1.20 |
| | Soda Sulph Anilate | 1/2 " | 3.84 |
| | Sodium & Potassium Sulphate | 1/2 " | .32 |
| | Ferro Cyanide | 1/2 " | .90 |
| | Sodium Bromate | 1/2 " | 2.10 |
| | " Glycero Phosphate | 1/2 " | 1.20 |
| | Amonium Carbonate C.P. | 1 " | .40 |
| | Litmus C.P. | 1 oz. | .30 |

PLACED IN BALANCE ROOM CLOSET #11

| | | | | |
|------|--------------|-------------|-------------|------|
| 4970 | Filter Paper | 12 packages | 12 1/2 o.m. | 2.16 |
| " | " | 12 " | 15 " " | 2.64 |
| " | " | 12 " | 19 " " | 3.00 |

GLASSWARE CLOSET #1

| | | | | |
|------|---------------------|----------|---|-------|
| 3134 | Flasks | 250 o.o. | 3 | 1.50 |
| 2514 | Granulated Cylinder | 50 " " | 6 | 3.30 |
| " | " | 100 " " | 6 | 4.20 |
| " | " | 200 " " | 6 | 5.10 |
| " | " | 500 | 6 | 7.50 |
| " | " | 1000 | 6 | 14.70 |

TUBING CUPBOARD #1

| | | | |
|------|---|--------|-------|
| 6046 | Rubber Tubing 3/8" | 10 ft | 1.50 |
| 6066 | " " 1/4" | 6 " | 2.16 |
| 7382 | Watch Glasses 3" | 2 doz. | 1.30 |
| " | " " 4" | 2 " | 2.00 |
| " | " " 5" | 2 " | 3.50 |
| " | " " 6" | 2 " | 4.80 |
| 6730 | (Thermometers 300 o.
((Foulo gra.) 680 f. | 6 | 18.00 |

CLOSET #7 (BALANCE ROOM)

| | | | | |
|------|------------|--------|----|------|
| 1764 | Casseroles | 5 o.m. | 12 | 4.10 |
|------|------------|--------|----|------|

BALANCE ROOM

Closet #2.

| Trade No. | Article | Size | Quantity | Value |
|-----------|-----------------------|-------|-------------------|----------|
| | Chromium | | 300 Grs. | 18.00 |
| | Cobalt Anode | | 1950 " | 17.60 |
| | Motor (Emerson) | 110 V | 1/10 H.P. D.C. 1. | 13.65 |
| | " | 110 V | 1/20 " " | 2. 22.10 |
| | " Sprague | 115 V | 1/20 " " | 1. 10.40 |
| | " Standard | 110 V | 1/20 " A.T.C. 1. | 13.00 |
| | " Crocker&Wheeler | 115 V | 1/4 " D.T.C. 1. | 20.80 |
| 2076 | Pinch Cocks (medium) | | | 11. 2.75 |
| " | " (large) | | | 5. 2.00 |
| 5994 | Retort (Iron) | | 1 Pint. | 1. 2.50 |
| " | " | | 1/2 " | 1. 2.25 |
| | Stoppers rubber #11 | 1/2 | | 12. 8.00 |
| | " | 10 | | 6. 1.10 |
| | Sulphoric Acid bottle | | | 1. .10 |
| | Telephone ringer | | | 1. |

1344.25

BALANCE ROOM

Closot J 7

| Trade No. | Article | Size | Quantity | Value. |
|-----------|--------------------|------------|----------|--------|
| | Bismuth | 12,000 | grams | 45.90 |
| | Cadmium | 500 | " | 1.40 |
| 1764 | Casserolles | 6" | 12. | 24.00 |
| " | " | 4" | 12. | 8.40 |
| 2610 | Evaporating Dishes | 6" | 12. | 9.60 |
| " | " | " 5" | 12. | 8.40 |
| " | " | " 4" | 12. | 5.40 |
| " | " | " 3 1/2" | 12. | 4.20 |
| " | " | " 3" | 12. | 2.40 |
| " | " | " 12" | 4. | 11.00 |
| " | " | " 24" | 3. | 48.00 |
| " | " | " 18" | 4. | 24.00 |
| " | " porcelain | " 8-7 C.M. | 1. | 1.44 |
| " | " | 6 o. dia. | | 1.35 |
| | Lead | 11,500 | grams | 3.82 |
| 6180 | Screen Solos | 5" | 1. | 1.00 |
| | Tin (block) | 6,000 | grams | 8.00 |

Glass Jars

210 51

BALANCE ROOM

Closet #11

| Trade No | Article | Size | Quantity | Value |
|----------|---|--------------|----------|-------|
| 4610 | Agate Mortar | 5" | 1 | 16.00 |
| " | " | 4" | 1. | 8.50 |
| 1428 | Alcohol Reservoir | | 1 | 9.00 |
| | Complete with burner | | 1. | 4.50 |
| 1426 | " Plain | | 1. | .55 |
| 2624 | Evaporating Dish | 7" | 1 | .35 |
| 2632 | " " head | 7" | 1 | 7.84 |
| --- | Filter Paper | 13" | 14 pks. | 2.80 |
| --- | " " | 33 cu.in. | 5 " | .22 |
| --- | " " | 15 " " | 1 " | .72 |
| --- | " " | 13 " " | 4 " | .96 |
| --- | " " | 7 " " | 12 " | 4.86 |
| --- | " " #602 | 11 " " | 12 " | 4.80 |
| --- | " " " | 12 1/2 Cu.in | 12 " | .30 |
| --- | " " " | 9 cu.in. | 1 " | 2.75 |
| --- | " " #590 | 7 " " | 11 " | 7.80 |
| --- | " " " | 7 " " | 12 " | 9.50 |
| --- | " " " | 9 " " | 10. | 1.00 |
| --- | " " Grey 100 S. | | 20 x 20 | 1.10 |
| --- | " " C. S. & S. 25 S | | 20 x 20 | .20 |
| 6010 | " Stands | 1 1/4" | 2 | .24 |
| " | " " | 2" | 2 | .30 |
| " | " " | 3" | 2 | 15.00 |
| 4770 | Flash point Tester | | 1 | 25.50 |
| 3676 | Gas Generator | | 2 | 2.80 |
| --- | Gauge Screens | | 14 Ps. | 3.00 |
| --- | Glass Wool | | 8 Oz. | 60.00 |
| 18543 | Volt Meter D Scale readings from 0 to 3 | | 1. | --- |
| 26981 | Millie Ampere Metre | | 1. | --- |
| 26981 | reading to 500 (Weston) | | 1. | --- |
| | Seward, Geo. O. Carbon, Apparatus | | 1. | --- |
| 6986 | Stem pipe Triangles | 3" | 7 | .84 |
| " | " " " | 2" | 8 | .88 |
| " | " " " | 1 1/2 | 2 | .20 |
| --- | Water Motor | | 1 | 7.00 |
| 7456 | Wire Gauge (Asbestos) | 6 X 6 | 12 | 2.75 |
| 11162 | Wolf Bottle 3 neck 4000 o.c. | | 1/2 Gal. | 2.75 |

262-01

1311 36

12

CHEMICAL LABORATORY

Inventory April 1914.

Mr. Edison's private table.

| Sub-division | Chemicals | Tray No. | Quantity | Value |
|--------------|--------------------------------|----------|------------|-------|
| A | Acetone (?) | | 2 Gal. | 2 46 |
| | Aceton | | 4 " | 88 |
| | Acetone | | 4 " | 88 |
| | Alcohol-Amylic | | 2 " | 40 |
| | " absolute wood | | 4 " | 34 |
| | " -denatured | | 4 " | 20 |
| | " wood | | 4 " | 25 |
| | Alkannin | | 2 oz. | 1 00 |
| | Amyl. Acetate Tech. | | 1 Gal. | 2 50 |
| | Ammon Cobalt Cyanide of Nickel | | | |
| | Aniline Blue | | 1 " | 2 00 |
| | " Negrosine | | 2 " | 3 50 |
| | Anisol | | 2 oz. | 40 |
| | | | | 4.71 |
| B | Benzone | | 1/2 Gal. | 05 |
| | Benzaldehyde | | 4 oz. | 08 |
| | Benzol | | 1 1/2 Gal. | 75 |
| | Benzophenon | | 1 oz. | 36 |
| | Bismuth Ammon Chloride | | 20 lbs. | 43 00 |
| | Bottles, Glass stop 6 oz. | | 2 | |
| C | China wood oil | | 1 Gal. | 09 |
| | Camphor Oil | | 1/2 " | 1 40 |
| | Carbon bisulphide | | 1 qrt. | 20 |
| | Carbontetra Chloride | | 1 Gal. | |
| | Chlorate Ammon NH4 ClO4 | | | |
| | Cresosote | | 1/2 " | 1 50 |
| | " Oil | | 2 oz. | 09 |
| D | Cobalt Cyanide of Nickel | | | 3.15 |
| | Deep black fat color | | 2 oz. | 50 |
| | Dichloro Hydrin Alpha | | 4 " | 15 |
| | Diethylaniline | | 3 " | 03 |
| E | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| F | Ferrous Ammon Sulphate | | | |
| | Film dope | | 1 1/2 Gal. | 4 54 |
| | Formaldehyde | | 1 " | 1 60 |
| | Fuming Nitric Acid | | 9 lbs. | 1 53 |
| | Fusel Oil | | 1 Gal. | 2 55 |
| G | | | | |
| | Gasoline | | 1/2 Gal. | 07 |
| | Glennridge Resin | | 3 oz. | 75 |
| | Glycerine | | 1/2 Gal. | 1 20 |
| | Graphite | | 1 lb. | 30 |
| | | | | |

-2-

| | | | |
|------|------------------------|------------|------|
| 6.4. | | | |
| H | Hexamethylenetetramine | 3 lbs. | 3 00 |
| | Hydrochloric Acid | 12 " | 1 32 |
| | Hydrogen Peroxide | 1 1/2 Gal. | 3 60 |
| | Hypnon | 2 oz. | 34 |
| 8.16 | | | |
| I | Iron Filings | 2 lbs. | 20 |
| | " Oxide | 1 oz. | 10 |
| | " Sulphate | 3 lbs. | 15 |
| | Isobutylxylol | 2 oz. | 63 |
| 105 | | | |
| L | Lamp Black | 1/2 oz. | 08 |
| M | | | |
| | Methylbenzylaniline | 3 oz. | 15 |
| | Methyl-diphenylamine | 3 oz. | 15 |
| | Methyl Orange | 1 oz. | 45 |
| | Meno-Chlor-benzol | 1 oz. | 04 |
| | Monochlorhydrin 80% | 3 oz. | 19 |
| | Monoethylorthotoluidin | 4 oz. | 19 |
| | Mono-chlor-phenol | 1/2 Gal. 1 | 75 |
| | Monoethylparatoluidin | 4 oz. | 31 |
| | Monothylaniline | 3 oz. | 13 |
| 3.16 | | | |
| N | Nitric Acid C.P. | 7 lbs. 1 | 19 |
| | Nitroanisol ortho | 2 oz. | 06 |
| | Nitro Xylol Meta | 2 oz. | 04 |
| | Nitro Xylol para | 1 " | 17 |
| | Nitro tolnol Meta | 1 " | 03 |
| 1.49 | | | |
| O | Oil Black | 2 oz. | 50 |
| | Orthochloraniline 80% | 3 " | 19 |
| | Orthophenetidin | 4 " | 22 |
| 91 | | | |
| P | Paraphenetidin | 4 oz. | 19 |
| | Penta Chloro Phenol | 2 1/2 " | 10 |
| | Phenetol | 2 " | 31 |
| | Picoline | 1 " | 05 |
| | Petroleum Ether | 1/2 Gal. 1 | 80 |
| 2.45 | | | |
| R | | | |
| S | | | |
| | Sealing Wax | 5 Lbs. | 1 00 |
| | Succinate of Lead | 1/2 oz. | |
| | Syrian Asphalt | 2 Lbs. | 60 |
| 1.60 | | | |
| T | Toluidin Meta | 2 oz. | 05 |
| | Turpentine | 1/2 Gal. | 40 |
| | Trichlorphenol | 6 oz. | 38 |
| .53 | | | |
| U | | | |
| W | | | |
| X | Xylidin Para (Com) | 3 oz. | 02 |

CHEMICALS, INORGANIC

Groups.

I. ALKALINE CLOSET #1

Potassium (Kalium potash)

Sodium (Natrium Soda)

Ammonium (Ammonia)

Lithium (Lithia)

II. AMMONIUM CARBONATE CLOSET #2

Barium Ba

Strontium Sr

Calcium Ca Lime

Magnesia Mg.

III. AMMONIUM SULPHIDE CLOSET #3

Iron (Ferris Ferrons)

Nickel

Cobalt

Aluminum

Chromium

Manganese

Zinc.

IV. HYDROGEN SULPHIDE CLOSET #4

Lead - (plumbum)

Tin (Stanium)

Antimony (Stibium)

Bismuth

Arsenic

Mercury (Hydragium)

Copper (Cuprum) 343

Cadmium

Silver (Argentum)

GROUP #1

Closet 1

A L K A L I N E

Including

POTASSIUM

SODIUM

AMMONIUM

LITHIUM

Section - Potassium - Shelf 6

| Article | Quantity | Value |
|-----------------------------|------------|-------|
| Potassium Acetate, (cooper) | 2 1/2 lbs. | 1.20 |
| " Acetyl Sulfuric Potium | 1/4 oz. | .05 |
| " Alum | 2 lbs. | .50 |
| " Arsenate 2 btls. | 1 3/4 " | 1.95 |
| " " pure | 1/2 " | .90 |
| " Arsenious | 2 " | 1.50 |
| " Benzoate pure | 10 oz. | 2.00 |
| " " Sulpho | 1 " | .79 |
| " Biarsenate | 2 lbs. | .50 |
| " Biobromate | 2 ozs. | .40 |
| " " C. P. | 1/2 ozs. | .05 |
| " " of Potash | 2 lb. | .30 |
| " " Crystals | 2 oz. | .16 |
| " Bisulfate | 4 lbs. | 1.30 |
| " Bitartaric | 8 " | 2.80 |
| " Bromide | 1 1/2 lbs. | .68 |
| " Binoscalate | 1/8 oz. | .01 |
| " Bromate | 1/8 " | .03 |
| " Borate | 1/2 " | .05 |
| " Carbolate (marok) | 1/8 " | .03 |
| " Carbonate | 1 1/2 lb. | 2.50 |
| " " T.P. K 2 C.O.3. | 2 ozs. | .20 |
| " " C.P. | 1 " | .10 |
| " " T.P. K. | 1 1/2 lb. | .60 |
| " Carbolate Cryst | 1 oz. | .24 |
| " Chloride T.P. | 4 lb. | 1.20 |
| " Chlorate | 1 oz. | .01 |
| " " Cryst. | 3/4 lb. | .60 |
| " " Marok | 3 1/2 " | .75 |
| " Chloride T.P. | 4 " | 1.20 |
| " Chloro Chromate Pure | 1/4 oz. | .02 |
| " Chromate C.P. | 6 ozs. | .60 |
| " " T.P. K. 2 C.O.3. | 12 " | .30 |

| | | | | |
|-------------------------------------|-------------------|--|---------|-------|
| Potassium Citrate | | | 1/4 lb. | .11 |
| " Cyanat | K | | 1/2 " | 2.50 |
| " Cyanide Ferro | | | 1/2 " | .75 |
| " " " | T.P. | | 2 oz. | .30 |
| " " " | Merok | | 3 lbs. | .90 |
| " " Ferri | | | 1/8 oz. | .02 |
| " " " | T.P. K.3 F.o. | | 1 lb. | .70 |
| " Cyanate | Pure | | 1/8 oz. | .07 |
| " Cydrate | Sticks Baker C.P. | | 1 lb. | .35 |
| " Cyanate - Sufo. | K.C.N.S. | | 2 lb. | 1.80 |
| " " " | C.P. | | 1/8 oz. | .02 |
| " Ethyl Sulfonate | | | 1/2 " | .10 |
| " " Sulfate | | | 1/8 " | .03 |
| " Ferric Osealate | Merok | | 1/4 " | .05 |
| " Fluoride Titan | | | 1/4 " | .03 |
| " " Silico | | | 3 lb. | 1.80 |
| " Hydrate Purif sticks | | | 2 " | |
| " Hyposulphite | | | 4 oz. | .60 |
| " " Pure | | | 1 lb. | 1.00 |
| " Iodide | C. P. K.e. | | 1 " | 2.75 |
| " Kal. Benzene Disulphonat | | | 1/2 oz. | .45 |
| " K. C. N. 98% | | | 1/2 " | .08 |
| " Manganate | | | 1 lb. | .25 |
| " Metallic | | | 2 " | 32.00 |
| " Meta Borate | | | 1/8 oz. | .03 |
| " Meta Phosphate. Neutral K.3. P.O. | | | 1/2 " | .08 |
| " Molybdenate Merok | | | 1/8 " | .06 |
| " Nitrate | T. P. | | 2 lbs. | .70 |
| " Nitrite | T. P. | | 1 " | 1.00 |
| " Osealate | | | 2 " | .50 |
| " " Titan | K.N.O.2. | | 1 " | 1.00 |
| " Permagan | C. P. | | 1/2 " | .25 |
| " Permaganate | T. P. | | 2 " | 1.00 |
| " " Merok | | | 1/2 oz. | .05 |
| " " C. P. | | | 6 " | .25 |

| | | | |
|----------------------------|------|---------|------|
| Potassium Perchlorate | | 1/2 lb. | 1.20 |
| " Phosphate | | 4 " | 2.60 |
| " " T.P. | | 1/4 oz. | |
| " Peroxycarbonate | | 1/8 oz. | .05 |
| " Persulfate | | 1/8 " | .05 |
| " Phosphus - Tungstate | | 1 " | |
| " Potass & Ammon | | 1/2 " | |
| " Pyrophosphate | | 2 " | .30 |
| " Pyrosulphite Morok | | 1/4 " | .05 |
| " Silicate (liquid) | | 1/2 lb. | .08 |
| " Sulfo - Molybdate | | 4 oz. | |
| " Sulphate C.P. | | 1 lb. | .35 |
| " Stibio | | 1/4 oz. | .05 |
| " Tamate | | 1/4 " | .13 |
| " Tellurate K. 2 T.E. 0.4 | | 6 " | 7.50 |
| " Telluride K. 3 particles | ---- | | 1.25 |
| " Titanate | | 1/4 " | .10 |
| " Uric | | 1/4 " | .20 |
| Wolfrenate | | 1/2 " | .15 |

5931

CHEMICAL LABORATORY

Group Alkaline

| Sub. Div. - | | <u>Sodium</u> | - Closet #1. | |
|-------------|---------------------|---------------|--------------|------|
| Sodium | Acetate | | 4 lbs. | 1.20 |
| " | Ammonium phosphate | C.P. | 1 1/2 lbs. | .90 |
| " | " " | T.P. | 1/4 oz. | .04 |
| " | Anilste Sulph. | | 5 gr. | .12 |
| " | Arsenicos | Natr | 5 lb. | 1.00 |
| " | Alizarine | | 5 gr. | .09 |
| " | Antimonate | | 1/8 oz. | .14 |
| " | Arsenite | | 1 lb. | .20 |
| " | Benzoic | | 13 oz. | .30 |
| " | Benzoate | | 10 oz. | .02 |
| " | " Boro | | 10 gr. | .10 |
| " | Benzene Sulfonate | | 10 " | .10 |
| " | Bicarbonate | 3 btls. | 5 lbs. | 1.50 |
| " | " | Yur Analyse | 1 " | .40 |
| " | " | T.P. | 3 oz. | .30 |
| " | Biborate | C.P. | 5 gr. | .05 |
| " | Biphosphate | | 1 1/2 lb. | 1.05 |
| " | " | T.P. | 1/8 oz. | .02 |
| " | Bisulfate | | 10 oz. | .40 |
| " | Bismuthate | C.P. | 10 gr. | .06 |
| " | Bismuth Subbenzoate | | 1/8 oz. | .07 |
| " | Bitartrate | | 5 gr. | .03 |
| " | Bromide | | 2 lbs. | 1.20 |
| " | Borate | | 2 " | .70 |
| " | " | Merck | 3 ozs. | .04 |
| " | Bromate | " | 5 gr. | .06 |
| " | Butyrate | " | 1 lb. | 1.79 |
| " | Carbonate | | 12 1/2 lbs. | 1.38 |
| " | " | C.P. | 2 " | .60 |
| " | " Dry | T.P. | 8 oz. | .80 |
| " | Carbolate | | 1 1/2 oz. | .38 |
| " | Choleate | | 5 gr. | .04 |

| | | | | |
|--------|---------------------------|-------------|------------|------|
| Sodium | Chlorid | K | 1 1/2 lb. | .75 |
| " | " Na Cl | | 3 oz. | .40 |
| " | Chloride | | 3 " | .30 |
| " | Chromat | K | 1 lb. | 1.75 |
| " | Cinnamate | | 1/8 oz. | .05 |
| " | Cyanide | Merck | 1 1/4 lb. | .65 |
| " | Essigsäures | K | 1/2 " | .25 |
| " | Fluoride | | 1 lb. | .25 |
| " | " Silico | | 2 " | 1.00 |
| " | Hydrate | T.P. | 4 " | 1.40 |
| " | Hydro-fluor-Silicate | | 1/2 oz. | 2.00 |
| " | Hyposulphite | C.P. | 2 lb. | 1.80 |
| " | Indigo Sulphate | | 2 gr. | .25 |
| " | Kali et Sulfate Natr | | 5 " | .13 |
| " | Katrum et Magi Tartrate | | 1/2 oz. | .20 |
| " | Manganate | | 1/2 " | .05 |
| " | Molybdate | | 1/2 " | .20 |
| " | Nitrate | | 6 oz. | .90 |
| " | Nitrite | T.P. | 4 lbs. | 2.40 |
| " | " | Stick | 1 lbs. | .60 |
| " | Oxalate | | 1 1/2 lbs. | .35 |
| " | Pernillate | | 10 Gr. | .05 |
| " | Peroxoide | T.P. | 3 1/2 lb. | 2.60 |
| " | Phenylate | | 1/2 oz. | .80 |
| " | Phosphatungstate | | 10 gr. | .19 |
| " | Phosphate (Tribasio) T.P. | | 1/2 lb. | .60 |
| " | " C.P. | | 3 lb. | .90 |
| " | " | | 2 oz. | .20 |
| " | Phosphite | C.P. | 3 " | .35 |
| " | Phosphophat | | 1/8 oz. | .02 |
| " | Salicylate | | 3 oz. | .35 |
| " | Silicate | (Albany Co) | 1 lb. | 3.75 |
| " | Stannate | | 1 oz. | .10 |
| " | Sulphide | Liquid | 3 " | .20 |
| " | Sulphid | " | 6 " | .40 |

| | | | |
|------------------|------------------|-----------|------|
| Sulfovinatē | | 5 gr. | .05 |
| Sulfite | | 1/4 oz. | .03 |
| Sulphoocarbonate | (Liquid) | 1/4 " | .30 |
| Stibic | Natr (Meta Anti) | 3 oz. | 1.17 |
| Tartrate | T.P. | 3 " | .45 |
| Taunste | | 5 gr. | .04 |
| Tungstate | Merck | 1 1/2 lb. | .62 |
| " | | 1/2 " | .50 |
| Uranate | Fellow Hyd. | 1/2 " | 2.70 |
| Urate | | 1/8 oz. | .08 |

2550-11

| Group - <u>alkaline</u> | | | Cabinet #1 | | |
|--------------------------|-------------------|--------------|------------|-----------|------|
| Sub-division - Ammonium. | | | | | |
| Ammonium | Acetate | T.P. | 2 Btls. | 7 lbs. | 4.90 |
| " | Alum | T.P. | | 2 " | .60 |
| " | Arsenate | C.P. | | 3 gr. | .05 |
| " | Benzoate | | | 1 oz. | 1.00 |
| " | Bichromic | C.P. | | 2 lb. | 1.30 |
| " | Bichromate | C.P. | | 1/2 oz. | .33 |
| " | Binoscolate | C.P. | | 10 gr. | .05 |
| " | Bisulfite | C.P. | 2 btls. | 1 3/4 lb. | 3.95 |
| " | Biphosphate | | | 1/2 oz. | .45 |
| " | Boracic | T.P. | | 2 " | .25 |
| " | Borate | | | 2 " | .25 |
| " | Bromide | | | 1/2 lb. | .33 |
| " | Carbazotate | (?) | | 3/4 " | .18 |
| " | Carbonate | | | 1 lb. | .15 |
| " | Chloride | T.P. | | 3 " | .90 |
| " | " | - | | 2 " | .30 |
| " | Citrate | | | 1 " | 1.05 |
| " | Fluoride | Merck | | 1/2 lb. | .30 |
| " | Formate | | | 5 gr. | 1.00 |
| " | Hyposulphite | C.P. | | 10 " | .05 |
| " | Meta Tungstate | | | 5 " | .05 |
| " | Molybdate | 2 btls. T.P. | | 1 lb. | 1.40 |
| " | " | " " C.P. | | 2 " | 2.80 |
| " | Sodium Phosphat | K. | | 1 " | .95 |
| " | Nitrate | K. (Berlin) | | 1/2 lb. | .35 |
| " | Oxalate | C.P. | 2 btls. | 9 lb. | 4.50 |
| " | Persulfate | | | 1/4 oz. | .15 |
| " | Phosphate Dibasic | | | 3/4 lb. | .52 |
| " | Phosphite | C.P. | | 5 gr. | .10 |

17 1/2

| | | | | |
|----------|-----------------|--------------|---------|------|
| Ammonium | Purate | | 1 oz. | 1.60 |
| " | Rhdonat | T.P. | 1 lb. | .60 |
| " | Salicylate | | 1 oz. | .80 |
| " | Salicylic | C.P. | 1/4 oz. | .05 |
| " | Sulfate | T.P. | 3 lb. | .90 |
| " | Sulfocyanate | 2 btls. C.P. | 3 " | 1.80 |
| " | Sulphate | | 1/2 oz. | .05 |
| " | " Ferrous | C.P. | 1 lb. | .50 |
| " | Sulphite | | 1/2 lb. | .50 |
| " | Sulphocarbolate | | 1 oz. | 1.75 |
| " | Tartaric | C.P. | 1/4 oz. | .05 |
| " | Uranate | | 1 oz. | .75 |
| " | Urate | (Schuehardt) | 1/4 oz. | .15 |

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CHEMICAL LABORATORY

Inventory - April 1914.

| | Main Room | Closet #1. | |
|---------|-----------------------|-----------------|-------|
| | <u>Group</u> | <u>Alkaline</u> | |
| | Solution Lithium | Shelf | 6 |
| | Article | Quantity | Value |
| Lithium | Acetate | 1/2 oz. | .10 |
| " | " pure | 2 " | .40 |
| " | Acid, Stearate of --- | 4 " | 2.00 |
| " | Bichromate, | --- 20 dr. | .35 |
| " | Bitartrate | --- 1/2 oz. | .10 |
| " | Bromide | --- 1/2 oz. | .12 |
| " | Carbonate | --- 3/4 lb. | 1.00 |
| " | Chromate Cryst | --- 4 oz. | 2.00 |
| " | Citrate | --- 3 " | .37 |
| " | Fluoride pure | --- 1 1/2 " | 1.34 |
| " | Formate | --- 1 " | 1.04 |
| " | Iodide | --- 1/2 " | .23 |
| " | Nitrate Cryst | --- 2 " | .40 |
| " | Oxalate | --- 1 1/2 " | .30 |
| " | Phosphate pure | --- 1/2 " | .12 |
| " | Salicylate | --- 1/4 " | .05 |
| " | Silico Fluoride | --- 3/4 " | .87 |
| " | Stearate Neutral | --- 1 " | .50 |
| " | Sulfuric | --- 1/2 " | .10 |
| " | Sulphate | --- 1/4 " | .05 |

Group #2

Closet #2

AMMONIUMCARBONATE

Including

BARIUMSTRONTIUMCALCIUMMAGNESIARARE METALS

GROUP AMMONIUM CARBONATE

| Sub. Div. | | <u>Barium</u> | Closet 2 | |
|-----------|---------------------|---------------|-----------|------|
| Barium | Acetate (Re-agent) | | 2 oz. | .30 |
| " | Ammon. Chloride 10% | | 1 qt. | .10 |
| " | Antimonate | | 1 oz. | .50 |
| " | Borate | | 5 " | .75 |
| " | " B n (Bo. 2. M.H. | | 4 gr. | .02 |
| " | Carbonate | | 1 lb. | .30 |
| " | " T.P. | | 2 oz. | .20 |
| " | " C.P. | | 2 1/2 oz. | 1.25 |
| " | Chloride C.P. | | 1 lb. | .25 |
| " | " T.P. | | 2 oz. | .50 |
| " | " | | 1 qt. | .10 |
| " | Chromate H.P. | | 5 gr. | .03 |
| " | Fluoride | | 1 1/2 oz. | 1.30 |
| " | Hydrate (Tech.) | | 1 lb. | .20 |
| " | Hydroxide T.P. | | 1 1/2 lb. | .53 |
| " | Nitrate 2 btls. | | 3 1/2 oz. | .05 |
| " | Oxalate | | 5 gr. | .03 |
| " | Sulphate | | 2 lbs. | .20 |
| " | Telluride (?) | | 1 oz. | .01 |

GROUP - AMMONIUM CARBONATE

| | Sub. Div. | Strontium | - Closet 2 | |
|-----------|-------------------------------|-----------------|------------|------|
| Strontium | Arsenate | | 8 oz. | 3.52 |
| " | Antimonate | Sr. S. 6. o 3/2 | 4 " | - |
| " | Borate | | 5 " | .03 |
| " | Carbonate | | 1 " | .03 |
| " | " | Sr. C.o. 3 | 2 " | .04 |
| " | Chloride, Inc. - | | | |
| " | Sr. Cl. 2 6 H. 20. | | 1 lb. | - |
| " | Sr. Cl. 2 6 - 20. | | 1 3/4 lb. | 1-36 |
| " | Fluoride | | 5 gr. | .03 |
| " | Iodide | (Merck) | 1 lb. | 4.20 |
| " | Nitrate | | 1 " | .20 |
| " | " | S. R. No. 3/2 | 5 gr. | .02 |
| " | Oxalate | (Merck) | 1/2 lb. | .60 |
| " | Phosphate | " | 5 gr. | .03 |
| " | Salicylate (free from Barium) | | 3 oz. | .45 |

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| GROUP | | <u>AMMONIUM</u> | <u>CARBONATE</u> |
|-----------|---------------------|-----------------|------------------|
| Sub. Div. | - Calcium | - | Closest 2 |
| Calcium | Acetate K | | 2 oz. .20 |
| " | " | | 1/2 lb. .67 |
| " | Arsenate | | 2 oz. .30 |
| " | Borate | | 10 gr. .08 |
| " | Carbonate | | 4 lbs. .40 |
| " | Chloride T.P. | | 1/2 lbs. .60 |
| " | Chromio | | 2 oz. .20 |
| " | Cyanamide | | 2 " .20 |
| " | Ferrocyanide | | 1 " .15 |
| " | Fluoride | | 4 lbs. .40 |
| " | Glycoctartarate of, | | 2 oz. .15 |
| " | Monoborsio Piphos | | .45 |
| " | Nitrate | | 4 oz. .60 |
| " | Peroxide | | 1/2 lb. 1.20 |
| " | Phosphate Reagent | | 1/2 " .38 |
| " | Phosphat K | | 2 oz. .40 |
| " | Saccharate | | 2 lbs. 3.00 |
| " | Selinate | | 10 gr. 1.00 |
| " | Sulphate | | 9 oz. .80 |
| " | Sulphide Reagent | | 1 lb. 1.10 |
| " | Trichloroacbolate | | 1 oz. .64 |

GROUP AMMONIUM CARBONATE

| | Sub. Div. | Magnesium | Closet #2 | |
|-----------|-------------------|--------------|-----------|------|
| Magnesium | Acetate | T.P. | 2 lb. | 1.80 |
| " | Ammonium Chloride | | 1/4 lb. | .30 |
| " | Carbonate | | 1 lb. | .15 |
| " | Chloride | | 1 " | .30 |
| " | Hexametaphosphate | | 1/4 lb. | .45 |
| " | Hyposulfuros | | 1/2 lb. | 1.20 |
| " | Magnesite | | 4 oz. | .03 |
| " | Metallic powder | | 4 " | 1.00 |
| " | Nitrate | | 1/2 oz. | .05 |
| " | Oxalate | | 1 oz. | .15 |
| " | Oxide | 2 btls. | 9 " | .90 |
| " | Sulphate - Ethyl | | 1 " | .30 |
| " | " - | T.P. | 2 lbs. | .40 |
| " | Sulfite | 2 btls. C.P. | 2 " | .55 |

13 45

Group - Ammonium Carbonate

Sub - Div.

Rare Metals.

| Rare Metals | | | |
|-------------|-----------------------------|-------------|--------|
| " | Beryllium Nitrate | 5 oz. | .17 |
| " | Corium Acetate | 1/4 " | .20 |
| " | " Chloride | 2 " | .95 |
| " | " Chloride | 2 " | .30 |
| " | " Citrate | 2 " | 1.30 |
| " | " Malate | 1/4 " | .75 |
| " | " Oxide | 1 " | .79 |
| " | " Phosphate | 1/2 " | .15 |
| " | " Sulfoylate | 1/2 " | .35 |
| " | Cesium Chloride (2) | 1 oz. 1 Gr. | 13.25 |
| " | " Rubidium Chloride | 2 Gr. | 1.30 |
| " | Didymium Carbonate | 5 Gr. | .12 |
| " | " Chloride (2) | 8 Oz. | .67 |
| " | " Sulfate | 1/2 " | 3.20 |
| " | Lanthanum Carbonate | 3 Gr. | 3.00 |
| " | " Chloride | 1/4 Oz. | .62 |
| " | " Nitrate | 5 Gr. | .55 |
| " | " Sulphate | 5 Gr. | .90 |
| " | Molybdenum Metal | 1/2 Lb. | 3.00 |
| " | " Oxide Blue | 1/4 Oz. | .62 |
| " | Neodymium & Potassa Cyanide | 5 Gr. | .39 |
| " | Platinum Black | 2 Oz. | 196.00 |
| " | Rubidium Alum | 1/4 Lb. | 3.00 |
| " | " Chloride | 3 Gr. | .45 |
| " | " Sulphate | 2 Oz. | 5.00 |
| " | Rutile | 3/4 Lb. | .13 |
| " | Selenious Acid | 1 Oz. | 2.50 |
| " | Silicium Tetrachloride | 2 Oz. | 3.00 |
| " | Silver Bromide (2) | 1 1/2 " | 1.30 |
| " | " Carbamide | 1/4 Oz. | .16 |
| " | " Chloride | 1/2 Lb. | 4.50 |
| " | " " Impure | 3 " | 30.00 |
| " | " Chromate | 4 Oz. | 4.80 |
| " | " Cyanide | 1/2 Lb. | 6.00 |
| " | " Iodide | 1/2 Oz. | 1.27 |
| " | " Metal | 3 Lbs. | 36.00 |
| " | " Nitrate | 4 Oz. | 2.00 |
| " | " Phosphate | 1 Oz. | 1.65 |
| " | " Sulphate | 1/2 Oz. | .45 |
| " | Sulphur Uranate | 2 Oz. | .98 |
| " | Tellurium Oxide | 1 Oz. | 30.80 |
| " | " " C. 2. | 1/4 Oz. | 7.70 |
| " | " Oxychloride | 1/4 Oz. | .86 |
| " | Thallium Metallic | 1/2 Oz. | 1.75 |
| " | Thorium Oxide Anhydrous | 1/2 Lb. | 9.00 |
| " | " Arsenate | 1/2 Lb. | --- |
| " | " Borate (2) | 12 Gr. | 24.00 |
| " | " Sulphate (2) | 1 1/4 Oz. | 52.50 |
| " | Tungsten Bronze Red | 8 Oz. | 9.00 |
| " | " " C. P. | 3/4 Lb. | 8.00 |
| " | Uranium Chloride | 1/2 Lb. | 4.32 |
| " | " Hydroxide | 2 Oz. | 1.56 |
| " | " Sulphate | 2 Oz. | 1.20 |
| " | Zettrium Carbonate | 5 Gr. | 5.00 |
| " | Zircon | 1 Lb. | .20 |
| " | " Oxide | 2 Lb. | 24.00 |
| " | Zirconium " Hydrated | 1/2 Oz. | .60 |
| " | " Sulphate | | .48 |

I N O R G A N I C

Group 3 Closet 3

Ammonium Sulphide

Including

I R O N (Ferrium)

N I C K E L

C O B A L T

A L U M I N U M

C H R O M I U M

M A N G A N I S E

Z I N C

CHEMICAL LABORATORY.

Group 3 ARSENIOUS SULPHIDE.

Sub Division IRON (Ferric)

| | | | |
|--------|--------------------------|--------|------|
| Iron | Acetate - dry | 4 oz. | .60 |
| " | Ammon Chlorate | 2 " | .20 |
| " | " Citrate | 8 " | .52 |
| " | Borate | 8 " | .50 |
| " | Carbolate | 2 " | 1.00 |
| " | Carbonate | 2 lbs. | .40 |
| " | Citrate | 4 oz. | 2.80 |
| " | Chromate | 2 oz. | .30 |
| " | Ferro-Cyanide (Merck) | 4 oz. | .23 |
| " | Metal, through 70 on 180 | | |
| " | by Hydrogen | 6 oz. | .05 |
| " | Oxalate 2 btls. | 4 lbs. | 4.90 |
| " | Oxide " " (Muffle) | 1 " | .10 |
| " | Plumbago | 8 oz. | .13 |
| " | Potash Sulphate Magnetic | 8 " | 1.20 |
| " | Protchloride pure dry | 8 " | .80 |
| " | " | 1 " | .10 |
| " | Resinate | 1 " | .27 |
| " | Sulphate | 5 " | .02 |
| " | " (Merck) | 8 " | .10 |
| " | Stearate | 1 " | .34 |
| " | Wire | 3 lbs. | .30 |
| Ferric | Ammon et Natrum Citrate | 2 oz. | 1.58 |
| " | et Ammon Tartrate | 1 lb. | 1.34 |
| " | et Kali Pyrophosphate | 2 oz. | 1.58 |
| " | Chloride | 1 lb. | .52 |
| " | Oxide | 2 oz. | .02 |
| Ferric | Acetic | 1 oz. | .39 |
| " | et Ammon Oxalate | 1 " | .10 |
| " | et Moro Lactate | 1 " | .44 |
| " | et Mangan Chlorid | 2 " | .80 |
| " | et " Lactate | 1 " | .39 |
| " | Molybdate | 1 " | .14 |
| " | Pyrophosphate | 1 " | .09 |
| " | " Natrum | 1 " | .29 |
| " | " Albumated (.65oz) | 2 " | 1.30 |
| " | Protchloride | 1 " | .02 |
| " | Solfo Cyanide | 1 " | .25 |
| " | Tartrate (2 btls.) | 4 " | .80 |
| " | " Kalium | 2 " | .24 |
| " | Tartrate | 1 " | .11 |

GROUP 3 AMMONIUM SULPHATE.

Sub Division Cobalt.

| | | | |
|--------|------------------------|---------|------|
| Cobalt | Arsenate | 1 oz. | .69 |
| " | " pure | 1 " | .69 |
| " | Chloride 2 btls. | 3 lb. | 3.50 |
| " | Chromate | 4 oz. | 1.40 |
| " | Cntyrate | 4 " | |
| " | Cyanide (Merck) | 3 " | 3.12 |
| " | Kali Cyanide | 1 " | .50 |
| " | Metal | 1 lb. | 2.00 |
| " | Nitrate | 3 oz. | .75 |
| " | Nitric | 1 lb. | .13 |
| " | Oxide (Blue) | 1 oz. | 8.50 |
| " | Peroxide 2 btls. | 6 oz. | 1.50 |
| " | Proportionate | 1/2 oz. | 1.00 |
| " | Solution C. O. S. O. 4 | | |
| " | From Silver Lake | 1 lb. | .50 |
| " | Sulphide | 6 oz. | 5.34 |
| " | Sulpho Cyanet | 1 " | .77 |
| " | Tartrate | 1/2 " | .40 |

312-19

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GROUP 3 AMMONIUM SULPHIDE.

Sub Division Nickel

| | | | |
|--------|---------------------------------|---------|-------|
| Nickel | Chloride | 1 lb. | .60 |
| " | " Anhydrous 2 btls. | 1 lb. | .65 |
| " | Citrate | 1 " | 1.50 |
| " | Flake | 8 oz. | 1.00 |
| " | Hydrate 2 btls. | 1 lb. | .79 |
| " | Iodide Merck | 1 oz. | .92 |
| " | Metal Screened through 100 Mesh | 1 lb. | .55 |
| " | Metallic | 10 " | 11.00 |
| " | Oxalate ni C. 2 O4 | 4 " | 8.00 |
| " | Peroxide Ni. 2 o. 3 | 6 oz. | .50 |
| " | Phosphate | 2 lbs. | 3.00 |
| " | Potassium Cyanide | 1 oz. | .79 |
| " | " Sulphate | 1 " | .30 |
| " | Procthem | 1 1/2 " | |
| " | Sulphate | 12 " | .30 |

GROUP 3 ALUMINIUM SULPHATE.

Sub-Division Cobalt.

| | | | |
|--------|------------------------|-------|------|
| Cobalt | Arsenate | 2 oz. | .69 |
| " | " pure | 1 " | .69 |
| " | Chloride 2 btl. | 3 lb. | 3.50 |
| " | Chromate | 4 oz. | 1.40 |
| " | Citrate | 4 " | |
| " | Cyanide (Merck) | 3 " | 3.12 |
| " | Rail Cyanide | 1 " | .50 |
| " | Metal | 1 lb. | 2.00 |
| " | Nitrate | 3 oz. | .75 |
| " | Nitric | 1 lb. | .13 |
| " | Oxide (Blue) | 2 oz. | 6.50 |
| " | Peroxide 2 btl. | 6 oz. | 1.50 |
| " | Proportionate | 5 oz. | 1.00 |
| " | Solution C. O. S. O. 4 | | |
| " | From Silver Lake | 1 lb. | .50 |
| " | Sulphide | 6 oz. | 5.44 |
| " | Sulpho Cyanet | 1 " | .77 |
| " | Tartrate | 1 " | .40 |

5077

GROUP 3 ALUMINIUM SULPHATE.

Sub-Division Aluminum

| | | |
|------------------|--------|------|
| Aluminum Acetate | 1 lbs. | 1.71 |
| " Alumina | 1 " | .65 |
| " Chromic | 1 " | 4.00 |
| " Chloride | 1 " | 5.25 |
| " Chromate | 4 oz. | .70 |
| " Metallic | 1 lbs. | 1.70 |
| " Oxide | 4 oz. | .60 |
| " Oxide | 4 " | .60 |
| " Oxide pure | 1 " | .50 |
| " Silicate | 5 lbs. | .50 |
| " Sulphate | 1 oz. | .15 |

Chromium

| | | |
|----------------------------|--------|------|
| Chromium Alum Chromic c.p. | 6 lbs. | 2.40 |
| " Chrom Alum | 1 " | .50 |
| " Chloride (Merck) | 1 oz. | .10 |
| " Metallic | 1 oz. | .25 |

Ammonium Sulphate

Group 3

Closet 3

Sub Division Manganese

| | | | |
|-----------|------------------------|--------|------|
| Manganese | Acetate Pure | 1 lb. | 1.13 |
| " | Boracic | 8 oz. | .20 |
| " | Borate | 5 lbs. | 1.25 |
| " | Carbonate | 8 " | 4.80 |
| " | C - free | 2 " | 3.00 |
| " | Chloride | 8 " | 3.20 |
| " | Fluoride | 8 ozs. | .80 |
| " | Metallic | 4 " | .16 |
| " | Phosphate pur | 4 " | .80 |
| " | Sulfat Zur Analyse K | 1½ lb. | .75 |
| " | Sulfate C. P. | 7½ " | 3.75 |
| " | " T. P. | 1 " | .50 |
| " | Sulphate (K) Crys pure | 1 " | .69 |
| " | Sulphite | 4 oz. | .40 |
| " | Super Oxide M.N. 1.2 | 5 lbs. | .50 |
| " | Tartrate | 4 oz. | 1.00 |

Group 3 Ammonium Sulphate.

Sub Division Zinc.

| | | | |
|-----|--------------------------|---------|------|
| 170 | Acetate | 2 lbs. | .50 |
| " | Ammonium Sulphate | 2 oz. | .35 |
| " | arsenate | 1 " | .15 |
| " | arsite | 1 " | .15 |
| " | arsite (Merck) | 1 lbs. | 7.11 |
| " | Ascorbic (1) | 1 oz. | |
| " | Carbonate | 1 " | .03 |
| " | Chloride | 8 " | .35 |
| " | " A. N. C. Z. 2 | 4 " | .40 |
| " | Chrysic | 1 " | .11 |
| " | arsite | 1 " | .11 |
| " | Erythroposphatephosphate | 1 gr. | |
| " | Citrate | 3 gr. | 1.11 |
| " | Chloride (1) | 3 " | .15 |
| " | " Merck | 1 " | .15 |
| " | " et alii | 1 " | .15 |
| " | Dist | 12 lbs. | 3.00 |
| " | Ferro Cyanet (2) | 1 oz. | 1.11 |
| " | Hypophosphite | 1 " | .15 |
| " | Hypophosphorus | 2 " | .65 |
| " | Lactic | 4 " | .15 |
| " | Magnesium Hydroxide | 1 " | .15 |
| " | Natal | 1 lb. | .30 |
| " | " Granul C.I. | 1 " | .15 |
| " | Natalic (2) | 12 " | 4.50 |
| " | " C. I. (2) | 12 " | 7.00 |
| " | Glucate | 1 " | 1.15 |
| " | Oxalate | 2 " | 1.15 |
| " | Phosphate | 2 oz. | .15 |
| " | Phosphor | 4 " | .04 |
| " | Phosphoric | 1 " | .15 |
| " | Picrate | 4 " | 1.15 |
| " | Resinate | 1 " | |
| " | Sulphophenolate | 1 " | .05 |
| " | Sulphate | 1 lbs. | .20 |
| " | Sulphate | 1 " | .17 |
| " | Tartrate of Zinc | 2 oz. | .13 |
| " | Tartrate | 4 " | .08 |
| " | Tungstate | 1 " | |

31-1-

HYDROGEN SULPHITE.

Group 4

Closet 4

Sub Division - BISMUTH.

| | | | |
|---------|-------------------------|------------|------|
| Bismuth | Acid | 2 oz. | 3.00 |
| " | Ammon Chloride Sol. (2) | 4 1/2 lbs. | .60 |
| " | " Citrate | 1 oz. | .30 |
| " | Arsenate | 2 " | .95 |
| " | Benzoate C. P. | 1 " | .35 |
| " | Beta Naphtholate | 1/2 " | .50 |
| " | Bismuthate | 1/2 " | .42 |
| " | Borate (2) | 2 " | 1.68 |
| " | Boro Salicylate | 1/2 " | .37 |
| " | Bromate | 1 " | .45 |
| " | Butyrate | 1 " | 1.07 |
| " | Camphorate | 1/2 " | .77 |
| " | Carbolate | 1/2 " | .40 |
| " | Cerium Salicylate | 1 " | .25 |
| " | " Oxalate | 1/2 " | .32 |
| " | Chloride | 1 " | .40 |
| " | Chromate (3) | 5 " | 3.96 |
| " | Citric | 1/2 " | .13 |
| " | Fluoride (2) | 3 " | |
| " | Hydrate | 4 " | 1.16 |
| " | " Pure (M) | 2 " | .58 |
| " | Iodide | 4 " | 3.00 |
| " | " Cryst 6 tubes | 2 " | 1.50 |
| " | Lactate | 1/2 " | .20 |
| " | Lactic | 1/2 " | .20 |
| " | Metallic | 2 lbs. | 5.50 |
| " | Molybdate | 1 oz. | 1.44 |
| " | Sodium Iodide | 1/2 oz. | .94 |
| " | Nitrate | 4 " | 1.00 |
| " | Oxide | 1 " | .40 |
| " | " Fused | 2 lbs. | 7.00 |
| " | Oxalate | 3 oz. | 1.47 |
| " | Oxychloride | 1 lb. | 2.80 |
| " | Oxychromate | 1/2 oz. | .37 |
| " | Oxyiodide | 1/2 " | .20 |
| " | Permanganate | 1/2 " | .65 |
| " | Phosphoric | 1 lb. | 4.25 |
| " | Potum. Tartrate | 1/2 oz. | .14 |
| " | Propionate | 1/2 " | .85 |
| " | Pyrogallate | 1/4 " | .28 |
| " | Salicylate | 1 " | .37 |
| " | Silicate | 8 " | 2.24 |
| " | Sodium Benzoate | 1/2 " | .27 |
| " | Subcarbonate (3) | 1 1/2 lb. | 3.55 |
| " | Sub-Nitrate (2) | 1 1/2 oz. | .30 |
| " | Sulphate | 1 lb. | 3.75 |
| " | Sulphite | 2 oz. | .50 |
| " | Sulphide | 1/2 " | .25 |
| " | Sulphocarbolate | 1 " | .79 |
| " | Tannic | 1/2 " | .13 |
| " | Tartaric | 4 gr. | .06 |
| " | Tartrate | 1/2 oz. | .10 |
| " | Tetraoxide | 1/2 " | .13 |
| " | Ungstate | 1 " | 1.04 |
| " | Tri-Bromocarbolate | 1/2 " | .49 |
| " | Valerionate | 1/2 " | .10 |

6372

Hydrogen Sulphide

Group 4

Classet 4

| | |
|------------------|-----------------------|
| Sub Div. Mercury | |
| Mercury | Acetate |
| " | Amidopropionate |
| " | Ammoniated |
| " | Arsonate |
| " | Bichloride |
| " | Boro Tungstate |
| " | Chloride Calcium |
| " | Cyanide (E) |
| " | Diphenyl |
| " | Ethyl Chloride |
| " | Ferro-cyanide |
| " | Iodide |
| " | Malate |
| " | Mercurioid |
| " | Oxalate (ous) |
| " | Oxide |
| " | " Electrolytic |
| " | " Red |
| " | " " C. . . |
| " | " Silver Lake |
| " | " Yellow |
| " | " Wet process |
| " | " Oxycyanide |
| " | Phenylacetate |
| " | Phloro-Glucin Acetate |
| " | Phosphate |
| " | Potass. Cyanide |
| " | Potass. Hypersulphite |
| " | " Iodide, reagent |
| " | Protonitrate |
| " | Resorcin Acetate |
| " | Salicylate Di. Ioda |
| " | " |
| " | Stearate |
| " | Sulphate (ous) |
| " | Succinimide |
| " | Tartrate (ous) |
| " | Thymolate |
| " | Urate |
| " | Zinc Acetate |

| | |
|-----------|------|
| 1/2 oz. | .13 |
| 1/4 " | .20 |
| 1/4 " | .04 |
| 4 " | 1.20 |
| 1 lb. | 1.15 |
| 1/2 oz. | .24 |
| 1 " | .30 |
| 11 lbs. | 27.1 |
| 1/2 oz. | 1.70 |
| 1/2 " | 1.5 |
| 1/4 " | .13 |
| 1 " | .20 |
| 1/2 " | 1.80 |
| 1/4 " | 2.2 |
| 4 " | .00 |
| 1/4 lb. | .4 |
| 1/2 " | .75 |
| 2 oz. | .3 |
| 1/2 lb. | .40 |
| 2 lb. | 3.0 |
| 1/4 " | .4 |
| 1 oz. | .10 |
| 1/2 " | .30 |
| 1/2 " | .30 |
| 1/2 " | .37 |
| 3/4 " | .45 |
| 1/2 " | .1 |
| 1/4 " | .25 |
| 1 " | .60 |
| 1 lb. | 1.20 |
| 1 1/4 oz. | .17 |
| 1/2 " | .75 |
| 1/4 " | .7 |
| 1/4 " | .1 |
| 1/2 " | .2 |
| 1/4 " | .4 |
| 1/2 " | .3 |
| 1/2 " | .40 |
| 1/4 " | .20 |
| 1/2 " | .17 |

Hydrogen Sulphate

Group 4

Closet 4

Sub-Division

Copper

| | | | | |
|--------|-------------------|------|---------|------|
| Copper | Acetate | (2-) | 1 lb. | .40 |
| " | Aluminated | | 1/2 oz. | .08 |
| " | Ammonium Chloride | | 1/2 lb. | .25 |
| " | " Cyanide | | 1/4 " | .50 |
| " | " Sulphate | | 2 1/2 " | 1.33 |
| " | Benzoate | | 1/4 oz. | .12 |
| " | Boracic | | 1/2 " | .10 |
| " | By Electrolysis | | 1/4 lb. | .40 |
| " | Carbonate | | 8 oz. | .18 |
| " | Chloride Merck | | 8 oz. | .80 |
| " | " | | 1 lb. | .45 |
| " | Cyanide | | 5 gr. | .04 |
| " | Fluoride | | 1/2 lb. | 2.94 |
| " | Mono. Chloride | | 1/4 " | .80 |
| " | Oxide | | 5 lb. | 2.00 |
| " | " C. P. (2) | | 2 " | 1.65 |
| " | " " cupric | | 1/4 " | .80 |
| " | Phosphate | | 4 oz. | .80 |
| " | Scale Hendricks | | 8 lb. | 4.00 |
| " | Sub. Acetate | | 1/2 " | .20 |
| " | Sulphate | | 1 " | .25 |
| " | Sulpho Carbolate | | 1 oz. | .30 |
| " | Tartaric | | 1/2 " | .08 |

15.4~

Hydrogen Sulphate

| Group 4 | | Closet 4 | |
|--------------|------------------------|------------|------|
| Sub-Division | | Lead | |
| Lead | Acetate C. P. | 1 1/2 lbs. | .52 |
| " | " | 4 oz. | .40 |
| " | Alloy-Test Lead & Gold | 1/2 oz. | --- |
| " | Amalgam | 4 " | .40 |
| " | Carbonate C. P. | 2 lbs. | 1.20 |
| " | Chloride | 2 " | .90 |
| " | Cyanate | 1/2 oz. | .50 |
| " | Dyanide | 2 " | .60 |
| " | Hydroxide | 1/4 " | .08 |
| " | Litharge Flako | 2 " | .04 |
| " | Nitrate (3) | 3 lbs. | .70 |
| " | " C. P. (2) | 1 1/2 " | .65 |
| " | Oxalate | 1/2 " | .25 |
| " | Oxide | 1/2 " | .15 |
| " | Peroxide (2) | 3 1/2 " | .93 |
| " | " T. P. | 1 " | .70 |
| " | Phosphate (2) | 12 oz. | 1.80 |
| " | Plaster | 3 " | ---- |
| " | Resinate | 2 lbs. | .14 |
| " | Sulfate | 3 " | 1.20 |
| " | " Plate Morok | 1 " | .83 |
| " | Soap | 4 oz. | ---- |
| " | Test | 2 lbs. | .40 |

12.37

3472-09

Hydrogen Sulphate

| Group 4 | | Closet 4 | |
|---------------|---------------------|----------|------|
| Sub-Division. | | Tin | |
| Tin | Acetate | 4 oz. | 2.16 |
| " | Chloride (Stannous) | 6 " | .23 |
| " | " T. P. | 3 lb. | 6.00 |
| " | Chromatic (ous) | 1 oz. | .49 |
| " | Granulated | 1/2 lb. | .75 |
| " | Hydroxide | 1/2 " | .60 |
| " | Metallic (3) | 1 1/2 " | 2.25 |
| " | Oxalate | 1 oz. | .15 |
| " | Oxide (Stannous) | 1 lb. | 1.00 |
| " | Sodium Chloride | 2 oz. | 1.28 |
| " | Sulphate | 1/2 lb. | .90 |
| " | Tartrate (2) | 3 " | 3.92 |

67.3

Hydrogen Sulphate

Group 4

Closet 4

| Sub-Division | Cadmium | | |
|--------------|----------------|---------|------|
| Cadmium | Acetate | 2 oz. | .60 |
| " | Ammon Sulphate | 1 " | .10 |
| " | Carbonate | 6 " | 1.80 |
| " | Chloride (2) | 8 " | 1.60 |
| " | Chromate | 1 " | .17 |
| " | Cyanide | 4 " | .50 |
| " | Hydroxide | 1 1/2 " | .20 |
| " | Iodide | 5 " | 1.75 |
| " | Metal | 1 " | .15 |
| " | Oxide (Purq) | 1 1/2 " | .17 |
| " | Sulphide | 1 1/2 " | .15 |

3491.82

44

Hydrogen Sulphate

Group 4

Closet 4

| Sub-Division | Acids Inorganic | | |
|--------------|------------------|---------|-------|
| Acid | Arsenic | 1/2 lb. | .20 |
| " | Arsenous | 1 " | .20 |
| " | Boric Pure | 1 1/2 " | .08 |
| " | Chromic | 3 1/2 " | 2.05 |
| " | Hydrobromic (2) | 1 1/2 " | .50 |
| " | Molybdic Merck | 3 1/2 " | 4.90 |
| " | " Reagent | 5 gr. | .05 |
| " | Phosphorous | 1 lb. | 2.50 |
| " | Phosphoric Syrup | 3 " | 1.20 |
| " | " Glacial K. | 1 1/2 " | .33 |
| " | Silicic | 1 1/4 " | .02 |
| " | Titanic C. P. | 1 1/2 " | 3.25 |
| " | Tungstic | 1 1/2 " | .75 |
| " | " C. P. | 1 " | 4.25 |
| " | Vanadic (com) | 2 " | 10.00 |

Hydrogen Sulphate

Group 4

Closet 4

Sub-Division Antimony & Arsenic

Antimony

| | | | |
|----------|-------------------------------|---------|-------|
| Antimony | Arsenate | 2 lb. | 4.00 |
| " | Arsenite | 1 oz. | .25 |
| " | Hydroxide | 4 " | .80 |
| " | Hexa Methyl Phosphate of lead | 3/4 " | .60 |
| " | Iodide | 1/4 lb. | 2.40 |
| " | Met. Powder | 5 oz. | .50 |
| " | Oxide | 3 " | .30 |
| " | Penta Chloride | 6 " | 1.80 |
| " | Sulphide | 1 lb. | .25 |
| | | | 10.90 |

Arsenic

| | | | | |
|----------|----------|-----|---------|------|
| Arsenic. | Metallic | (2) | 6 lb. | 2.70 |
| " | Rubrum | | 1/2 oz. | .02 |
| " | Sulphide | (2) | 8 " | .18 |
| " | White | (2) | 20 lb. | 4.00 |
| | | | | 6.90 |

3547.09

46

Hydrogen Sulphate

Group 4

Closet 4

Sub-Division. Carbon Etc.

| | | | |
|--------|----------------|---------|------|
| Carbon | Bone Black | 1/2 lb. | .05 |
| " | Charcoal | 1/2 " | .05 |
| " | Charcoal Blood | 1/2 " | .13 |
| " | Graphite Flake | 5 " | 2.00 |
| | | | 2.23 |

Iodine & Bromine

| | | |
|--------------------|------------|------|
| Bromine | 2 1/4 lbs. | 1.35 |
| Iodine Resol lined | 3/4 " | 2.44 |
| | | 3.79 |

Phosphorous

| | | |
|----------------------|-----------|------|
| Phosphoric Anhydride | 1 1/2 lb. | 1.87 |
| Phosphorus Amorphous | Red 1 " | 1.30 |
| Wachts Phosphorous | 1/4 " | .25 |
| Yellow " | 1/2 " | .50 |
| | | 3.92 |

671

Sulphur

| | | |
|-----------------|-------|-----|
| Sulphur Flowers | 1 lb. | .10 |
| " precipitated | 1 " | .10 |

357.2.6

ORGANICS

Group 5

Closet 5

Sub Div. Acids.

| | | | |
|------|--------------------|-----------|-------|
| Acid | Abietic | 4 oz. | 7.28 |
| " | Acetic Antype | 1 lb. | 1.60 |
| " | " | 6 oz. | .13 |
| " | Amygalic | 2 " | 1.20 |
| " | Caproic | 1 lb. | 10.50 |
| " | Carbolic | 2 1/4 " | .80 |
| " | Catechin | 2 oz. | 3.08 |
| " | Chloracetic | 8 " | 2.00 |
| " | Chlorocrotinic | 2 " | 28.00 |
| " | Citric (Merck) | 2 " | .20 |
| " | " C. P. | 2 lb. | 1.80 |
| " | Copavia | 6 oz. | 4.20 |
| " | Cresylic | 2 " | .60 |
| " | Cuminic | 4 " | 44.80 |
| " | Cyansic | 1/4 " | 1.00 |
| " | Lactic | 2 " | .30 |
| " | Malic | 8 " | 9.60 |
| " | Nitrobenzoic | 1/4 " | .25 |
| " | Mucic | 4 " | 2.00 |
| " | Oleic | 3 " | .04 |
| " | Oxalic | 1 1/4 lb. | .20 |
| " | Oxybenzoic | 2 oz. | 1.28 |
| " | Palmitic | 2 " | .20 |
| " | Phthalic Anhydrous | 8 gr. | .06 |
| " | Picric | 1-1/8 lb. | .95 |
| " | Pruassic | 3 oz. | .30 |
| " | Pyrogalllic | 2 1/2 lb. | 5.00 |
| " | Rufigalllic | 4 oz. | 5.50 |
| " | Stearic | 8 " | 2.40 |
| " | Succinic C.P. | 1 lb. | 5.00 |
| " | Tannic | 1 " | 1.00 |
| " | Tartaric | 4 oz. | .13 |
| " | Uric | 4 " | 2.60 |
| " | Valerianic | 1 lb. | 21.00 |

65.00

GROUP 5 ORGANICS CLOSET 5.

| | |
|---------|---------------|
| Shelf 4 | ALCOHOLS |
| " 4 | ALDEHYDES |
| " 3 | AMINES |
| " 5 | HYDROCARBONS |
| " 4 | KETONES |
| " 2 | MISCELLANEOUS |
| " 1 | OILS |
| " 6 | ORGANIC ACIDS |

3742-22 49

O R G A N I C S

Group 5

Closet 5

Sub Div. Oils.

| | | | |
|------|----------------------|------------|------|
| Oils | Balsam Copoiba | 2 lbs. | 1.60 |
| " | Canada Balsam | 4 oz. | .08 |
| " | Coru Oil | 4 " | .04 |
| " | Malaye Olive Oil | 1 lb. | .50 |
| " | Neatsfoot Oil | 1 " | .25 |
| " | Oil Almonds (Bitter) | 1 oz. | .30 |
| " | " Birch | 8 " | 1.00 |
| " | " Cade | 8 " | .20 |
| " | " Cajiput | 8 " | 1.20 |
| " | " Cod Liver | 1 1/2 lbs. | 1.80 |
| " | " Laurel | 1 oz. | .30 |
| " | " Lavender | 1 lb. | 4.00 |
| " | " Nutmeg Solid | 1 " | .75 |
| " | " Paraffine Heavy | 1 " | .10 |
| " | " Petrolatum | 1 " | .25 |
| " | " Pinus Sylvestres | 8 oz. | .85 |
| " | " Rape Seed | 1 lb. | .10 |
| " | " Sesame Benna | 1 " | .15 |
| " | Strychnia | 1 " | .55 |
| " | Venice Turpentine | 1 " | .40 |

GROUP 5 ORGANICS CLOSET 5.

Sub Division Amines

| | | |
|-----------------------------|--------------------|-------|
| Acetamide | 2 oz. | .80 |
| Acetate | $\frac{1}{2}$ " | .28 |
| Alloran (Erythrig Acid) | $\frac{1}{2}$ " | 3.75 |
| Amidophenol | $\frac{1}{4}$ " | .13 |
| Aniline | 1 " | .10 |
| " Blue Oil | 1 lb. | .35 |
| " Chloride | $\frac{1}{2}$ oz. | .05 |
| " Nitrate | 1 " | .25 |
| " Oil (Com) | 2 " | .20 |
| " Oxalate | 2 " | .50 |
| " Red Oil | 2 lbs. | .70 |
| " Sulfuric | $1\frac{1}{2}$ oz. | .30 |
| Antifibrin | $\frac{1}{2}$ " | .09 |
| Asparagin | $1\frac{1}{2}$ " | 2.25 |
| Carbamid | 8 " | 2.00 |
| Carbazol | 1 " | .40 |
| Chinolin | $\frac{1}{2}$ " | .34 |
| Dibenzylamine | $\frac{1}{2}$ " | 1.42 |
| Dimethylaniline | 2 " | .40 |
| Diphenylamine | $2\frac{1}{2}$ " | .50 |
| Hydroxylamine Hydrochloride | 2 " | 1.60 |
| Hydrozine Sulphate | 3 lbs. | 16.50 |
| Metapheylaminediamine | 2 oz. | .50 |
| Naphtalamine Hydrochloride | 3 lbs. | 7.00 |
| Naphthylamine | $\frac{1}{2}$ oz. | .15 |
| Paraphenylaminediamine | 1 lb. | 2.00 |
| " pure | 4 oz. | 3.00 |
| Phenacetin | 3 oz. | |
| Pyriden | $\frac{1}{2}$ " | .03 |
| Quinine Pills | 2 doz. | .20 |
| Trioxymethylene | 1 lb. | 1.25 |
| Xylidine | 4 oz. | .60 |
| Xylol | 1 " | .04 |

47.65

Group 5

ORGANICS

Closet 5

Sub Div. Miscellaneous

| | | |
|------------------|---------|-------|
| Agar Agar | 1½ lb. | .30 |
| Albumin (Blood) | 1 " | .45 |
| " (Egg) | 1 " | .85 |
| Balsam Tolu | 3 " | 1.20 |
| " Copaiva | 8 oz. | .20 |
| Cascia | 2½ lbs. | 1.00 |
| Chitin | ½ oz. | 37.50 |
| Gum Aceroidea | ½ lb. | |
| " Amber | 8 " | .63 |
| " Benzoin | 2 " | .08 |
| " Copal #2 | 5 " | 1.75 |
| " Damar | 4 oz. | .09 |
| " Galbanum | 1 lb. | 1.50 |
| " Lucust Tree | ½ " | |
| " Tragacanth | 4 oz. | .25 |
| Gutta Percha | 2 lbs. | 11.00 |
| Jalapin | ½ oz. | .05 |
| Jelutong | ½ lb. | .05 |
| legumin | ½ oz. | 6.20 |
| Lycopodium | 1½ " | .03 |
| Lymon Asphalt | 2 lbs. | .20 |
| Menthol | 4 oz. | 2.60 |
| Oil Cedars | 2 " | .20 |
| " Sassafras | 1 " | .07 |
| Rosin oil | 8 " | .10 |
| Sanguin Dragonis | 3 lbs. | 1.20 |
| Scammony | 2 oz. | 1.70 |

Miscellaneous (Bottom Shelf)

| | | |
|-----------------|--------|------|
| Asbestos Powder | 2 lbs. | .70 |
| Cane Sugar | 2 " | .12 |
| Corn Starch | ½ " | .08 |
| Dexterine | 3 oz. | .04 |
| Dextrose | 4 " | .03 |
| Diatose | ½ " | .33 |
| Mannit | 3 " | 1.20 |
| Potato Starch | 8 " | .08 |
| Sugar of Milk | 4 " | .07 |

Organic Acids.

Group 5

Sub-Division. Hydrocarbons.

| | | |
|--------------------|---------|------|
| Acetal | 1 oz. | 1.00 |
| Amyl Iodide | 1/2 " | .30 |
| Anthracene | 1 " | .24 |
| Benzoyl Chlorid | 2 " | .40 |
| Benzoyl cyanide | 1 " | .16 |
| Carbon Trichloride | 1/2 " | .25 |
| Cresol (2) | 8 " | 2.25 |
| " meta | 6 " | 1.25 |
| " ortho | 6 " | 1.80 |
| Dibromoanthracene | 4 " | 6.00 |
| Ether Benzoic | 1 lb. | 1.80 |
| Thethylurethane | 1/2 oz. | .15 |
| Methyl Salicylate | 1/2 " | .05 |
| Naphthalin | 2 lb. | .20 |
| Phenanthrene | 4 oz. | 1.58 |
| Propyl Formate | 1/4 " | .65 |
| " Valerianic | 1/4 " | .65 |
| Quinidine Borate | 1/2 " | |
| Salicylic Ether | 1 lb. | 4.50 |
| Tolnol | 1 " | .30 |
| Trichlorophenol | 4 oz. | .80 |
| Uria Nitrate | 1/2 " | .18 |

Organic Acids.

Group 5

Closet 5

Ketones Alcohols Aldehyds

| | | |
|------------------------|-----------|-------|
| Acetaldehyde C. P. | 1/2 lb. | 1.20 |
| Acetophenone | 2 oz. | 1.00 |
| Alcohol Anglio | 2 lb. | 2.00 |
| Aldehyde Formic | 1 " | .25 |
| Anthrochinon | 3/4 " | 2.70 |
| Artho nitro phenol | 1/2 oz. | .28 |
| Benzonaphtol | 1 " | 1.25 |
| Betanaphtol | 1 " | .50 |
| Benzaldehyde | 1 lb. | 1.00 |
| Boroglycerin | 2 oz. | .27 |
| Bromalhydrate | 1 " | 1.10 |
| Chloral hydrate | 1/2 lb. | .90 |
| Dinitrobenzol | 8 oz. | .25 |
| Ether Oxalic | 1 1/2 lb. | 7.20 |
| Hydrochinone | 1/2 oz. | .08 |
| Mononitronaphtaline | 1 " | .10 |
| Nitross B. Naphtol | 1 " | .75 |
| Nitro dimethye Aniline | 1 " | 3.75 |
| Pinakon | 2 " | 10.00 |
| Phloroglucin | 1/4 " | .80 |
| Safrol | 1/4 " | .04 |

Organic Inc. Dyes.

Group 6

Closet 6

Sub-Division.

Aniline Dyes

(Per Cat. Eimer & Amend)

| | | | |
|-------|---------------------------|-------|------|
| Dyes | Black Jet B. Fat (Berlin) | 2 oz. | .50 |
| " | " Oil " | 2 " | .50 |
| " | " Nigrosine Fat " | 2 " | .50 |
| " | " " B " | 2 " | .50 |
| " | " " H " | 2 " | .50 |
| " | " " R " | 2 " | .50 |
| " | " " W " | 2 " | .50 |
| " | " " 2/B Base | 2 " | .50 |
| Blue | Al. C.I. | 2 " | .50 |
| " | B.B. | 2 " | .50 |
| " | R.R. | 2 " | .50 |
| " | Al. Sol. | 2 " | .50 |
| " | Brilliant (Berlin) | 2 " | .50 |
| " | Cotton C. 4.B. | 2 " | 1.00 |
| " | Fast | 2 " | .50 |
| " | Methyl | 2 " | 1.00 |
| " | Methyolene | 2 " | .50 |
| " | Napthol | 2 " | .50 |
| " | Pat A. conc. | 2 " | .50 |
| " | Pheno B.H.X. | 2 " | .50 |
| " | Sol prussian | 2 " | .50 |
| " | Victoria night | 2 " | 1.00 |
| " | " B. conc. | | .50 |
| " | " 4 R. | | .50 |
| Brown | Bismark | | .50 |
| " | " Y. Brill | | .50 |
| " | Pheno A.T. Conc. | | .50 |
| " | Pheno E.T. | 2 " | .50 |
| " | Resorcine L.X. | 2 " | .50 |
| " | " C.B. | 2 " | .50 |
| Green | Acid Green B.B. | 2 " | .50 |
| " | " " C.B. | 2 " | .50 |
| " | ----- M. | 2 " | .50 |
| " | Base | 2 " | .50 |
| " | " R. | 2 " | .50 |
| " | Naphtol B. | 2 " | .50 |
| " | Night L. | 2 " | .50 |
| " | Oil Green | 2 " | .50 |
| Red | Acid Magenta | 2 " | .50 |
| " | Amaranth B. | 2 " | .50 |
| " | Benzopurpurine 4. B. | 2 " | .50 |
| " | (Berlin) | 2 " | .50 |
| " | Bromo J. | 2 " | .50 |
| " | Chrysoidine R. | 2 " | .50 |
| " | Croc. Orange 62544 | 2 " | .50 |
| " | " Scarlet R. | 2 " | .50 |
| " | Fuchsine Dis. | 2 " | .50 |
| " | Oil Red #7968 | 2 " | .50 |
| " | " " #5563 | 2 " | .50 |
| " | Orange Y. | 2 " | .50 |
| " | Rhodamine B. | 2 " | .50 |
| " | " B.K. | 2 " | .50 |
| " | " R.K. | 2 " | .50 |
| " | Scarlet B.A.S.F. | 2 " | .50 |
| " | " R. | 2 " | .50 |
| " | Sofranine Base | 2 " | .50 |

29.50

| | | | |
|--------|---------------------|-------|-------|
| Violet | Cryat D. | 2 oz. | 24.50 |
| " | Base | 2 " | .50 |
| " | Mettmul 3.B.P. | 2 " | .50 |
| " | Purple | 2 " | .50 |
| " | " Alora | 2 " | .50 |
| Yellow | Anthracine | 2 " | .50 |
| " | Auramine O. Base | 2 " | .50 |
| " | Chin Yellow W. | 2 " | .50 |
| " | Chrysoidine Y. | 2 " | .50 |
| " | Fast S. | 2 " | .50 |
| " | Nanking B. | 2 " | .50 |
| " | " Y. | 2 " | .50 |
| " | Oil Yellow Y.Y. | 2 " | .50 |
| " | Phosphine | 2 " | .50 |
| " | Safraimine C.F.F.X. | 2 " | .50 |

37. "

Group 6 Organic Ino. Lyes.

| Shelf 2 | Closet 6. | |
|---------------------------|-----------|------|
| Anisic Alcohol Resin | 1/4 oz. | .33 |
| Anthracene Crude | 1 oz. | .10 |
| " Pure | 1 " | .20 |
| " Sublimed | 1 " | .20 |
| Anthraquinone | 3 " | 1.32 |
| Benzoin | 1 " | .05 |
| Betanaphthol Sublimed | 2 " | .06 |
| Benzophenol | 2 " | .45 |
| Camphor mono-bromated | 1/2 oz. | .11 |
| Chinolin treated Chlorine | 2 " | 2.00 |
| Dichlorobenzol | 5 Gr. | .01 |
| Dichloronaphthalene | 1/2 oz. | .01 |
| Dioxynaphthalene Coml. | 10 gr. | .04 |
| Fluorone " | 5 gr. | .04 |
| Glyccool | 1/4 oz. | .65 |
| Guaiscol | 2 oz. | .18 |
| Hexachlorethan C.P. | 1/2 oz. | .25 |
| " Coml. | 4 oz. | .17 |
| Monochlorphenol para | 1 " | .06 |
| Naphtol Alpha Recryst | 1 " | .05 |
| Perchlorbenzol C.P. | 5 gr. | .01 |
| Phenanthrene C.P. | 2 oz. | .70 |
| " Purified | 1/4 oz. | .05 |
| Pheno-resorcin | 2 oz. | .20 |
| Phenol-Tribromide | 1 " | .19 |
| Phenol-Trichloride | 1/2 oz. | .04 |
| Pyrcatechin | 4 oz. | 6.16 |
| Quinhydrone | 1 oz. | |
| " in M. H. 3.O.H. | 2 " | |
| Reten Coml. | 2 " | 2.50 |
| Trichloroquinone (a) | 3 " | .47 |

16.6

Group 6 ORGANICS INC. LYES.

Closet 6

Shelf 3

| | | |
|-----------------------------------|-----------|-------|
| Alphamononitro Naphthalene | 1/2 oz. | .04 |
| Alpho Pure cryst. | 5 gr. | .02 |
| Amido azobenzole | 1 oz. | 2.00 |
| Amido azobenzine | 3 " | 6.00 |
| Arthonitro Benz-aldehyd | 2 gr. | 2.50 |
| Azobenzel (Purified) | 1/4 lb. | 2.52 |
| " Coml | 5 oz. | .90 |
| Azobenzoidia (Goedstein) | 2 gr. | |
| Binitrotoluol | 3 " | .50 |
| Dimethyl Amine | 1/2 oz. | 5.00 |
| Dimethylamidoazobenzol (Purified) | 1/4 lb. | 3.75 |
| Dimethylamine Azobenzine | 5 gr. | .05 |
| Dinitro Benzol Meta | 3 oz. | .23 |
| " Chlor benzol | 2 gr. | .01 |
| Hydraazobenzol | 2 " | |
| Nitro Cumanic Acid (2) | 1/2 oz. | |
| " Guanidin | 1 oz. | 14.00 |
| " Phenol Para | 1/4 oz. | .25 |
| " Naphthalene Alpha, pure crystl | 5 gr. | .16 |
| " Toluol Para | 2 " | .01 |
| Ortho Nitro para Toluol | 1/2 oz. | .06 |
| " " " Phentiden | 2 gr. | |
| Para Nitro Acet Anilid | 1/4 oz. | .05 |
| " " Anilool | 2 gr. | .03 |
| " Dichlor Benzol | 3 gr. | .01 |
| Terpin Hydrate Cryst. (5) | 2 1/2 oz. | .40 |
| Terpineol (Merck) lilacine | 2 gr. | .04 |
| Terpineol (m) | 1 oz. | .57 |
| Yetitido Azobenzol, Hydrochlorate | 2 " | |

ORGANIC INC. DYES

Group 6.

Shelf 4

Shelf 4 Organic

| | | |
|---------------------------------|---------|-------|
| Acetanilid | 10 gr. | |
| " para amidephenol | 10 " | |
| " phenylene Diamine | 10 " | |
| Acetastolindine (Crude) | 1/2 oz. | |
| Alphamononitro Naphtalene | 1/2 " | .05 |
| Alpha Naphtoe Crude | 4 oz. | .17 |
| Amido 'roteenylol | 1/2 oz. | .02 |
| Aniline Meta phosphate | 1 oz. | |
| Azobenzoiden (?) | 5 gr. | |
| Azobenzol | 1 lb. | 10.08 |
| " Coml | 4 oz. | .51 |
| Azobenzol Hydrochlorate Nitrido | 1 " | |
| " " Purified | 4 " | 3.36 |
| Benziden | 5 " | 10.00 |
| " Base | 3 " | .75 |
| Binitrotolnol | 5 gr. | .01 |
| Carbazol | 1 oz. | .84 |
| Chineonidine Benzoate | 5 gr. | .08 |
| Dimethylemido Azobenzol C.P. | 4 oz. | 1.12 |
| " " Purified | 4 " | .31 |
| Dimethyleminazobenzine | 1 " | .28 |
| Dimethyl- aniline | 4 " | .35 |
| Dinitrobenzol Meta | 2 " | .35 |
| DinitroChlorobenzol | 5 " | .01 |
| Diphenylamine C.P. | 1 " | .07 |
| Guanidine Carbonate | 2 " | 28.30 |
| Hexamethylenetetramine | 1/2 oz. | |
| Hydrazobenzol | 5 gr. | .30 |
| Methylomphenylamine | 1 oz. | .11 |
| Monomethylparaamidophenol meta | 5 oz. | 3.00 |
| Naphtalamine Alpha | 5 oz. | .08 |

| | | |
|-----------------------------|---------|------|
| Naphtalamine Beta | 6 oz. | .17 |
| Nitro Aniline Meta pure | 10 gr. | .08 |
| " " Ortho " | 1/2 oz. | .12 |
| Nitrocinnamic Acid Anhyde | 10 gr. | .01 |
| Nitro-Guanidine | 1 oz. | .35 |
| " Naphaline Mono Alpha | 10 gr. | .01 |
| " Phenol Ortho | 2 oz. | 1.50 |
| " " Para | 1 " | 1.00 |
| " Tolmol " | 10 gr. | .01 |
| Oleamine (?) | 2 oz. | |
| Oil (G) | 1 " | |
| Oleamide-Bitter Almonds (G) | 1 " | |
| Ortho Amido Phenol | 1 " | .13 |
| " " " (com) | 1 " | .26 |
| " Nitro benzaldenhyd | 10 gr. | .01 |
| " " paraphenetidin | 2 oz. | .56 |
| Ortho Nitro Toliden | 1/2 oz. | .05 |
| " " Toluol para | 1 oz. | .15 |
| Para amido ortho cresol | 1/2 gr. | .07 |
| " " phenol | 2 oz. | .08 |
| " Anisidine | 2 " | .13 |
| " Chlor Aniline | 2 " | 1.54 |
| " Nitro Acetaniled | 1/2 oz. | .03 |
| " " Aniline pure | 2 oz. | .29 |
| " " Anisol | 1/4 oz. | .01 |
| " " Chlor Benzol | 1 oz. | .03 |
| Phenylendiamine Meta Basio | 5 " | .21 |
| " Pure | 2 " | .56 |
| " Para Basio | 2 " | .20 |
| " " pure | 2 " | .50 |
| Phosphoramide G. | | |
| Phosphorous Aniled G | 1/2 oz. | |
| Terpene Hydrate | 3 " | 2.25 |
| Terpineol | 1/4 oz. | .15 |

| | | |
|-----------------------------------|-------|------|
| Terpinol | 1 oz. | .47 |
| Tetramethyldiamidodephenylmethian | 5 gr. | .05 |
| Thiosinamine | 4 oz. | 3.96 |
| Toluilendiamin Met a Basic | 4 " | .56 |
| Tolunediamine " " | 5 " | .18 |
| Triphenylene Aniline (G) | 1 " | |

4079. J³ORGANICS

Group 6

Closet 6

Shelf 5 -

| | | |
|-------------------|---------|------|
| Alkannin | 2 oz. | 1.00 |
| Aluin C.P. | 1 " | .17 |
| Brucin | 1/4 " | .68 |
| Cumarin | 1/2 " | .58 |
| Papaverin | 2 " | 8.00 |
| piperin | 1 " | .64 |
| Quinine | 1 lb. | 8.76 |
| " Acetate | 4 oz. | 2.72 |
| " Valercanate (2) | 4 1/4 " | 2.98 |
| Quinoidine | 2 " | .24 |
| Strychine Acetate | 5 gr. | .34 |
| Tropaolin | 1 oz. | .25 |
| Uranine | 1/4 " | .07 |

ORGANIC (Goldstein)

Group 6

Closot 6

Shelf 6

| | | |
|--|---------|-------|
| Acid Anchoic Azelate (G) | 2 oz | |
| " Cres Sopheric | 2 " | 84.00 |
| " Dioxystearic | 1/2 " | .34 |
| " Phtalic Anhydo | 1/2 " | .12 |
| " Sebacic | 1/2 " | .42 |
| Aluminum Malate (G) | 10 gr. | |
| " Oleate " | 1 oz. | |
| Aniline antimony bichloride (G) | 1 " | |
| " Cadmium Chloride " | 5 " | |
| " Copper bichloride " | 1/2 " | |
| " Mercury Bichloride " | 1 " | |
| " Tin Chloride " | 1/2 " | |
| " Zinc " | 1/2 " | |
| " Aluminum Trichloride " | 1 " | |
| Barium Malate " | 10 gr. | |
| Benzalin " | 5 " | |
| Bontromanitan | 1/2 oz. | .40 |
| Berizoyl oxide " | 1/2 " | |
| Calcium Xynthate | 1/2 " | .40 |
| Camphoromic Acid | 1/2 " | |
| Cerotene treated Chlorine " | 1 " | |
| " " | 2 gr. | |
| Chesrocerotic Acid " | 1/2 oz. | |
| Citrate Glyceryl Citromonoglyceric (G) | 2 " | |
| " " bi glyceric " | 2 " | |
| Cumenic Acid, action of Chlorine (G) | 1 " | |
| Colophane " | 2 " | |
| " treated Chlorine " | 2 " | |
| Cod-liver oil. Alcoholic Am. | 1/2 " | |
| Dibromglyceramide " | 1 gr. | 84.65 |

| | | | |
|----------------------------------|-----|---------|-------|
| Ethyl biborate | (G) | 1/2 oz. | |
| Epi glycerol bitrate of lead | (G) | 2 " | |
| " bitartaric Acid | " | 3 " | |
| Furfurine | " | 5 gr. | |
| Furfurinamide | " | 1 gr. | |
| Glyceryl Citrate | " | 2 oz. | |
| Lead Dibromacetate | " | 1 " | |
| " Eugenato | " | 2 " | |
| " Ricinolic | " | 4 " | |
| Magnesium Asperate | " | 1 " | |
| " Oleate | " | 2 " | |
| Mannityl | " | 10 gr. | |
| Nithlin | " | 10 " | |
| Nitrobenzote Benzoin | " | 1 oz. | |
| Naphtalamine treated Chloride | (G) | 1 " | |
| Naphteonic Acid, treated H No. 3 | (G) | 1 " | |
| Naphtalene Sulphoric Acid | | 2 " | 1.00 |
| Naphteonic Acid, | (G) | 1 " | |
| Ortho tolnol Sulphoric | | 2 " | .10 |
| Oil of Rubber | " | 1 " | |
| Oxynaphtalamine | " | 5 gr. | |
| Oil from old Rubber oxidized | (G) | 2 oz. | |
| Salicylide | (G) | 1 oz. | |
| Sassafras oil Sulph. Acid | " | 1/2 " | |
| Sodium Caprioate | " | 3 " | |
| Suberic Acid | | 1 " | 14.00 |
| Sulfophenyl | | 10 gr. | .15 |
| Sulpho cryssillie Acid | | 1 " | .01 |
| " Lead Salt | | 1/2 oz. | |
| Thio carbanide | | 1 " | 2.04 |
| Tolnol Sulfochlorid para | | 2 gr. | .20 |
| Zinc Ethyl Xanthic | (G) | 3 oz. | |

103.15

TABLE #1 CHEMICALS

| | | |
|--------------------------------|----------|-------|
| Acetone - Impure - | 1 Gal. | 1.80 |
| Acid Tungstic | 1 lbs. | 15.00 |
| " Anhydrosphosphoric | 1 " | .25 |
| " Acetic 50% | 1 " | .20 |
| Alcohol Amylic | 1 " | 1.00 |
| Ammon Acetate 10% | 1 " | .30 |
| " Chloride | 2 " | .24 |
| Artificial Camphor | 3 " | 2.25 |
| Benzine | 1 pt. | .02 |
| Benzol | 1 lb. | .15 |
| Bisulfide of Carbon | 5 lbs. | 1.00 |
| Boric Acid fused | 1 " | .80 |
| Bromine | 1 " | .60 |
| Caster Oil | 1 Gal. | .63 |
| Caustic potash N/2 K.O.H. | 1 lb. | .50 |
| " Soda 1/1 N. A. O.H. | 1/2 Gal. | 2.75 |
| Carbonized Bisulphide | 1 lb. | .20 |
| China Wood | 1/2 Gal. | .04 |
| Chloroform | 4 lbs. | 1.60 |
| Cobalt Chloride Sol. 20% | 1/2 Gal. | .44 |
| " " | 2 lbs. | 3.50 |
| Ether petrolic | 1 Gal. | 7.20 |
| Hydogen Peroxide | 1 " | 2.80 |
| Isetin | 10 gr. | 3.50 |
| Iodine N/2 | 1 lb. | 1.25 |
| Iron per-chloride | 4 " | 1.40 |
| Lead Oxide | 10 " | 3.00 |
| Metallio Nickel | 5 " | 5.00 |
| Mercuric Chloric | 1 " | 1.25 |
| Oxalic Acid N/2 1 & 2.o.2.o.4. | 1/2 Gal. | 1.20 |
| Potassium Permanganate | 1/2 Gal. | 1.20 |

| | | |
|------------------------------|----------|------|
| Soluble Starch | 1/2 lb. | .40 |
| Sulphoric Acid 1/1 S.2.S.O.4 | 1/2 Gal. | 1.20 |
| Silicon dioxide | 1 lb. | .10 |
| Talcum | 3 " | .04 |
| Tin Metallic C.P. | 3 " | 4.50 |
| Zinc Chloride Sol. | 1 pt. | .06 |

| | | |
|---------------------------------|------------|------|
| Acetic Ether | 2 lbs. | 1.00 |
| " Acid | 8 " | 1.20 |
| Acid Sulphorus | 1 pt. | .20 |
| Albumin, Egg. S.O. | 5 lbs. | 4.25 |
| Alcohol-denatured | 1/2 Gal | ..20 |
| Bismuth Ammon. Chloride | 1 1/2 " | 5.58 |
| Carbolic Acid, proof | 1 qt. | .05 |
| Caustic potash | 3 lbs. | .75 |
| " Soda | 2 " | .50 |
| Cobalt Sulfate Sol. 25% | 1/2 Gal. | 1.40 |
| " " | 1/2 " | 2.00 |
| Copper Plating | 1 qt. | ..05 |
| " Trysalyt | 1 lb. | .37 |
| Cupric Chloride 35% | 1 " | 1.00 |
| " Nitrate | 1 pt. | .50 |
| Drawing Ink | 1 qt. | 4.00 |
| Ferrous Sulphate Sol. | 1/2 gal. | .80 |
| Flake Separating ^g " | 1/2 " | .10 |
| Glacial Acetic Acid | 8 lbs. | 2.00 |
| Glober Salts | 3 " | .30 |
| Gum Camphor S.O. 3564 | 1/2 lbs. | .40 |
| Hydrosulfit | 2 lbs. | 1.20 |
| Indigo | 1 oz. | .15 |
| Iron Sulphide | 10 lbs. | 1.50 |
| Nickel Sulphate Sol. | 1 gal. | .70 |
| " Ammonium | 1/2 lb. | .10 |
| Resorcin U.S.P. | 4 oz. | .60 |
| Silverplating Sol. | 1 1/2 Gal. | 3.65 |
| Urotropia | 1/2 lb. | .30 |
| Yina Sulphate | 1 Gal. | 1.20 |

86.25

317.75

TABLE #3CHEMICALS.

| | | |
|-------------------------------|-----------------|-------|
| Acid Sulphuric (Battery Acid) | 3 lbs. | .15 |
| Ammonium Nitrate | 2 " | .50 |
| Alcohol C.R. 95% | 1 gal | 3.00 |
| Acid Sulphuric n/2 H.2 | $\frac{1}{2}$ " | 4.56 |
| " " 2/10 " " | 1 " | 3.04 |
| " Oxalic Dry | 3 lbs. | .45 |
| Calcium Carbonate | 2 " | .20 |
| Copper Sulphate | 8 " | .80 |
| Iron Metallic by Hydrogen | 5 " | 3.00 |
| " Mix | 30 " | |
| Lithium Hydrate | 12 " | 60.00 |
| Nickel " | 8 " | 8.00 |
| " Nitrate Sol. 2g-100cc | | .14 |
| Potassium Carbonate 2/4 K.2 | 1 Qt. | .80 |
| Sodium Sulphate | 5 lbs. | .75 |
| Strontium Carbonate | 2 " | .50 |

TABLE #4CHEMICALS.

| | | |
|--------------------------------------|-------------------|---------|
| Acid Gallic | 10 lbs. | \$ 6.50 |
| " Oleic | 3 " | .45 |
| Carbon Tetrachloride (c. cl 4) | 10 gals. | 32.00 |
| Eugenol | $\frac{1}{4}$ lb. | 1.20 |
| Hydroxylamine Chloride | 4 lbs. | 40.00 |
| Meta Tolindin | 1 " | 3.00 |
| Naphtaline | 3 " | .30 |
| Piphenylamine Sulfate Sol. Saturated | 1 gal | 1.60 |
| Xylol Chlorinated | 3 lbs. | 1.60 |

TABLE #7CHEMICALS.

| | | |
|-------------------|--------------------|-------|
| Alcohol - Wood | 2 gal. | 1.50 |
| Acid Salicylic | 2 lbs. | .90 |
| Alumin Stearate | 1 " | 5.80 |
| Caustic Potash | 2 " | .30 |
| Naphta Solvent | $\frac{1}{2}$ gal. | .23 |
| Nickel Chloride | 20 lbs. | 13.00 |
| Lanolin Anhydrous | 3 " | .81 |

4510-2

TABLE 8.

| | | |
|-------------------------|---------|-------|
| Ammon Nitrate | 15 lbs. | 3.75 |
| Anhydrous Iron Sulphate | 5 " | .50 |
| Bees Wax | 2 " | 1.00 |
| Calcium Sulphate | 5 " | .50 |
| Copper | 10 " | 1.50 |
| Cresol Resin | 3 " | 1.50 |
| Ground Shellac | 10 " | 6.00 |
| Hexachlorathan | 10 " | 60.00 |
| Iron Mix | 35 " | 12.60 |
| " Oxide | 3 " | .30 |
| Kaolin | 5 " | .50 |
| Nickel Flake | 1 " | 2.00 |
| " Hydrate | 20 " | 20.00 |
| Ore Sample Lucking Mine | | |
| Potassium Chlorate | 20 " | 3.00 |
| " Cyanide | 30 " | 13.50 |
| Sodium Acetate | 5 " | 1.00 |

TABLE #9

| | | | |
|-----------------------|-----------|-----------------|------|
| Acetone | | 2 Gals | 2.46 |
| Alcohol | Denatured | 1 " | .40 |
| Ammonia | | 1 " | .80 |
| " | Water | $\frac{1}{2}$ " | .20 |
| Benzine | | 10 " | .90 |
| Benzol | | 2 " | 1.00 |
| Carbon Tetra Fluoride | | 1 " | 2.40 |
| Caustic Soda | | $\frac{1}{2}$ " | .10 |
| Hydro Chloric Acid | | $\frac{1}{2}$ " | .20 |
| Nitric Acid | | $\frac{1}{2}$ " | .20 |
| Sulphuric " | | $\frac{1}{2}$ " | .20 |

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Ultra-Violet light, etc.
C. J. Hammer.

Rubber, crude and
compound Ingredients
Pearson

Reagents Chemical, Testing
Kurouch

Solutions
Ostwald

Solubilities of
Inorganic & Organic
Substances
Seidell

Soap, Treatise of
Manufacture of
Lussania Part 1

Sulphuric Acid &
Alkali 2 vols.
Lunge

Tar, coal and Ammonia
Lunge 2 vols.

-5-

Thermochemische
Untersuchungen
J. Thomas 4 Vols.
including Neutralisation
Metalloide
Metalle Organische
Verbindungen

Waterside Power house,
New - Specifications

Work shop Receipts
by Ernest Upon

BOOKS

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LUDWIG OTT

Ausgewählte Methoden
für Analytischen Chemie
by Prof. A. Classen

Chemische Technische
Untersuchungs Methoden
by Dr. Lunge

Encyclopedia of Practical
Receipts. Dick

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Inorganic Chemistry
Richter (Russian)

Leitfaden für die
quantitative Chemische
analyse von Carl Friedliam (German)

Qualitative Analysis
Von Carl Friedliam

Set Lunge Technische
Untersuchungs Methoden. (German)

RECEIVED FROM

EIMER & AMEND

May 21st, 1914.

| | |
|--|--------------|
| Alcohol Ethyl 95% | 5 Gals. |
| " Methyl C.P. | 1 " |
| Beakers #712 #2. 4. 6. | 2 doz. each. |
| Bengal Indigo | 1 lb. |
| Ether Sulphuric U.S.P. | 15 " |
| Flasks #3016 | 2 doz. each |
| " #3044 250 c.c. 500 c.c. 1000 c.c. | 1 doz. each. |
| Glass Rod 1/8" | 5 lbs. |
| Iron Ferrous Sulphate (cupboard 1) | 1 lb. |
| Lead Oxide P.b. O. C.P. | 5 " |
| Policemen Cupboard 1 | 2 doz. |
| Sodium Hydroxide U.P. Sticks | 5 lbs. |
| Spatulas #6274 10 c.in. blade (Cupboard 1) | 3 prs. |
| Sugar, Granulated | 20 lbs. |
| Tongs #6932 Cupboard 1 | 3 prs. |
| Thymol U.S.P. | 1 lb. |
| Weighing Bottles 50 m.m. high x 40m. m. | 6 |
| #3112 200 c.c. 500 c.c. | 6 each. |

SUMMARY OF VALUES

| | | | |
|------|----|--------------------------------------|--------|
| Page | 1 | Balance Room Cupboard #1 | 563.38 |
| " | 2 | " " " | 38.03 |
| " | 3 | " " " #2 | 538.38 |
| " | 4 | " " Apparatus | 89.61 |
| " | 5 | " " " | 130.53 |
| " | 6 | " " " | 37.59 |
| " | 7 | " " " | 226.25 |
| " | 8 | " " " | 88.82 |
| " | 9 | " " " | 134.25 |
| " | 10 | " " " | 210.51 |
| " | 11 | " " " | 265.01 |
| " | 12 | Chemical Room, Mr. E's private table | 77.52 |
| " | 13 | " " " " " | 20.08 |
| " | 16 | Group Alkaline Closet 1 - Potassium | 23.67 |
| " | 17 | " " " " | 51.58 |
| " | 18 | " " " " | 14.06 |
| " | 19 | " " " Sodium | 15.08 |
| " | 20 | " " " " | 25.76 |
| " | 21 | " " " " | 5.94 |
| " | 22 | " " " Ammonium | 28.61 |
| " | 23 | " " " " | 9.50 |
| " | 24 | " " " Lithium | 11.45 |
| " | 26 | " Ammon. Carbonate Closet 2 Barium | 6.61 |
| " | 27 | " " " Strontium | 10.51 |
| " | 28 | " " " Calcium | 13.45 |
| " | 29 | " " " Magnesium | 7.58 |
| " | 30 | " " " Rare Metals | 523.09 |
| " | 32 | " Sulphide " 3 Iron | 25.34 |
| " | 33 | " Sulphate " Nickel | 29.90 |
| " | 34 | " " " Cobalt | 30.79 |

| | | | | | | | | |
|------|----|--------|--------|-------------------|--------|---|-----------------|--------|
| Page | 35 | Group. | Ammon. | Sulphate | Closet | 3 | Aluminum | 13.31 |
| " | 35 | " | " | " | " | " | " Chromium | 3.05 |
| " | 36 | " | " | " | " | " | " Manganoso | 22.93 |
| " | 37 | " | " | " | " | " | " Zinc | 31.55 |
| " | 38 | " | 4 | Hydrogen Sulphite | " | 4 | Bismuth | 63.92 |
| " | 39 | " | " | " | " | " | " Mercury | 53.54 |
| " | 40 | " | " | " | " | " | " Copper | 18.52 |
| " | 41 | " | " | " | " | " | " Lead | 12.39 |
| " | 42 | " | " | " | " | " | " Tin | 19.73 |
| " | 43 | " | " | " | " | " | " Cadmium | 7.19 |
| " | 44 | " | " | " | " | " | " Acido Inor. | 30.28 |
| " | 45 | " | " | " | " | " | " Antimony | 10.90 |
| " | 45 | " | " | " | " | " | " Arsenic | 6.90 |
| " | 46 | " | " | " | " | " | " Carbon etc. | 10.14 |
| " | 47 | " | 5 | Organics | Closet | 5 | Acids | 165.00 |
| " | 49 | " | " | " | " | " | " Oils | 14.42 |
| " | 50 | " | " | " | " | " | " Amines | 47.68 |
| " | 51 | " | " | " | " | " | " Miscellaneous | 71.93 |
| " | 52 | " | " | " | " | " | " Hydro Carbons | 24.51 |
| " | 53 | " | " | " | " | " | " Alcohols etc. | 35.42 |
| " | 54 | " | 6 | " | " | 6 | Dyes | 29.50 |
| " | 55 | " | " | " | " | " | " " | 37.00 |
| " | 56 | " | " | " | " | " | " Organics | 16.60 |
| " | 57 | " | " | " | " | " | " " | 39.10 |
| " | 58 | " | " | " | " | " | " " | 60.15 |
| " | 59 | " | " | " | " | " | " " | 10.46 |
| " | 60 | " | " | " | " | " | " " | 5.22 |
| " | 61 | " | " | " | " | " | " " | 26.43 |
| " | 62 | " | " | " | " | " | " " | 85.68 |
| " | 63 | " | " | " | " | " | " " | 17.50 |

#3

| | | | |
|---------|-------------------------------------|------------------|------------------|
| Pago 64 | Table #1 | Chemicals | 61.07 |
| " 65 | " 1 | " | 6.30 |
| " 66 | " 2 | " | 36.05 |
| " 67 | " 3 | " | 85.89 |
| " 68 | " 4 | " | 86.65 |
| " 69 | " 7 | " | 22.54 |
| " 70 | " 8 | " | 127.65 |
| " 71 | " 9 | " | 8.86 |
| " 72 | Apparatus | in Chemical room | 329.63 |
| " 73 | " | " " " | 182.38 |
| " 74 | " | " " " | 501.55 |
| " 75 | " | " " " | 105.18 |
| " 76 | " | " " " | 290.37 - 6055 45 |
| " 77 | Tools Drawer Table #1 | | 21.38 |
| " 78 | Contents of Book case, balance room | | |
| " 79 | " | " " " | 6079-83 |
| " 80 | " | " " " | |
| " 81 | " | " " " | |
| " 82 | " | " " " | |
| " 83 | Books property of Chemists | | |
| | Order- Eimer & Amends May 21, 1914. | | |

6079-83

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APPENDIX C

1913 Heavy Machine Shop Inventory

EDISON LABORATORY

Inventory taken October 1913.

13 Lat 10

FIRST FLOOR MACHINE SHOP.

| LATHES | PRICE |
|---|-------|
| LATHE Inscribed No. 38. 18" swing 51" center.
Accessories 18" chuck taper att.
Hendey Machine Tool Co. | |
| LATHE NO. 39. 14" swing 58" center.
Acc. 13" chuck 14-1/2 " face plate
" 7" steady-rest Feather Co. | |
| LATHE NO. 40. 8" (Bench) swing 22" center.
Rivett Lathe Mfg. Co. | |
| LATHE NO. 41. (Bench) 8" swing 22" center.
Acc. gear att. at back-carriage.
Rivette Lathe Mfg. Co. | |
| LATHE NO. 101. 26" swing 138" center.
Acc. 1 chuck, face plate,
3 steady rests, 1 driving-plate.
Maker-Fiffield Tool Co.
Bought from prentiss T. A. Company | |
| LATHE NO. 102. 20" swing, 32" center.
Acc. 1 face-plate, 1 chuck.
Maker Fay & Scott.
Bought from prentiss T.S. & Co. | |

FIRST FLOOR

PRICE

LATHE NO. 103. 19" swing, 36" tool center.

Acc. 1 chuck, 1 face plate, 1 following plate, 1 center rest.

Maker - Niles Tool Works Company.

LATHE NO. 104. 30" swing, 86" center.

Acc. 1 face plate, 1 steady-rest.

Putman Machine Company.

LATHE NO. 105. 20" swing, 72" center.

Acc. 1 drive-plate, 1 face-plate, 1 chuck, 1 steady rest.

Bridgeport Machine Tool Works

LATHE NO. 106. 20" swing, 54" center.

Acc. 1 chuck, 1 steady rest, 2 face plates.

Bridgeport Machine Tool Company.

LATHE NO. 107. 14" swing, 40" center.

Acc. 2 chucks, 1 steady rest, 2 face plates.

Maker Le Blond R. K. Company.

LATHE NO. 109. 12" swing, 24" center.

(Speed) acc. 1 chuck, 1 face plate, 1 hand-rest, 1 special rest,

Maker Lucius W. Pond.

(This Lathe has been cut from 42" to 24" center)

LATHE NO. 110. 20" swing, 41" center.

Acc. 1 chuck, 1 steady-rest, 1 following rest, 1 special rest,

Maker Niles Bement Pond Company.

FIRST FLOOR

DRILL PRESSES

PRICE

DRILL PRESS NO. 42. 4-3/4" x 12" table.

(sensitive bench) Mfg. No. 22

Maker Burke Mach. Co.

DRILL PRESS NO. 112. 9-1/2" x 12" table

Changed to single spindle

Maker Sigourney Tool Co.

DRILL PRESS NO. 114. 27" x 37" table.

Universal radial.

Acc. Radial drill arm.

Maker Bennett Miles Co.

DRILL PRESS NO. 115. 12" x 19" table.

Double Spindle.

Maker The Fox Machine Co.

DRILL PRESS NO. 116. 22" table.

Maker B. F. Barnes Co.

Bought from Nills Tool Co.

SHAPERS

SHAPER NO. 44. 14" stroke.

Acc. 9" vise, 1 pr. centers, 1 pr.

swivels, 1 vise jaw.

Maker Gould & Eberhardt.

SHAPER NO. 116 A. 14" stroke.

Traverse head.

Maker Miles Tool Works.

This machine is in the automobile

repair shop. 708

| | FIRST FLOOR. | PRICE |
|---|--------------|-------|
| SHAPER NO. 117. 24" stroke | | |
| Traverse Head | ✓ | |
| Maker Niles Tool Works. | | |
| SHAPER NO. 118. 18" stroke, Vise 9" | | 7 |
| Maker The Hendey Mach. Company. | | |
| SHAPER NO. 120. 20" stroke. | | |
| swivel head, Vise 12" | ✓ | |
| Maker Gould & Eberhardt. | | |
| SHAPER NO. 133. 16" stroke. | | |
| Maker Eberhardt Company. | ✓ | |
| MILLING MACHINE NO. 43. 25" x 8" x 18" | | |
| Mfg. 2 A, Universal. | ✓ | |
| Acc. chuck 3-1/2", Vise 4", Index- | | |
| head, steady arm. | | |
| Maker Brown & Sharpe | | |
| MILLING MACHINE NO. 121. 48" x 9-3/4 x 19-1/2 | ✓ | |
| Mfg. 5. Universal | | |
| Acc. chuck 1-1/2" | | |
| Maker Brown & Sharpe. | | |

GRINDSTONE

GRINDSTONE NO. 126. Mfg. No. 2.
Maker Geo. L. Cummings.

GRINDERS

GRINDER NO. 125. 12" swing.
Cylinder, Universal.
Maker Landis Tool Co. ✓

FIRST FLOOR.

GRINDER NO. 45.

With magnetic chuck.

Maker The Biusse Company.

GRINDER NO. 127. Plain.

Maker the Biusse Company.

HACK SAWS.

POWER HACK SAW NO. 131. 6" stroke.

Two of these M.F. Company.

CIRCULAR SAW NO. 129. 12" saw.

Table 15" x 10" Maker "Burr"

SHEARS NO. 126. MFG. 8.

Maker W. C. Young Company.

BORING MILL NO. 212. 2 ft. swing.

Maker Peck, Stow & Willcox Co.

MOTOR H. P. 40 - 240 Volts.

Bullock Elec. Mfg. Company.

MOTOR H. P. 30 - 220 Volts.

General Electric Company.

MOTOR H. P. 2 - 230 Volts.

Old Engine Room.

General Electric Company.

FIRST FLOOR

| VICES | PRICE |
|---|-------|
| #4 VISE - Mfg. No. (?)
Maker Prentiss & Co. | |
| #1 VISE - Mfg. No. 20
Maker Prentiss & Co. | |
| #1 VISE - Mfg. No. 19-1/2.
Maker Prentiss & Co. | |
| Four of these marked a.b.c.d. | |
| #3 VISE - Mfg. No. 13-1/2.
Maker Prentiss & Co. | |
| #1 VISE - Mfg. mark C C.
Maker The Parker Co. | |
| #1 VISE - Mfg. No. 271-1/2.
Maker The Parker Co. | |
| Two of these marked a.b. | |
| #3 VISE - Mfg. No. 229.
Maker The Parker Co. | |
| Two of these marked a.b. | |
| #1 VISE - Mfg. No. 25 X.
Maker The Parker Co. | |
| #2 VISE - Mfg. No. 23.
Maker The Parker Co. | |
| #3 VISE - Mfg. No. 73 A.
Maker Rock Island Co. | |

FIRST FLOOR

VICES

PRICE

#4 VISE - No name.

possibly made in shop.

#6 VISE - no name.

possibly made in shop.

#135 DOUBLE EMERY WHEEL.

#134 ARBOR PRESS - Mfg. No. 3074.

Maker Prentiss & Co.

#126 SHEARS - Mfg. No. 8.

Maker W. C. Young & Co.

#212 BORING MILL - 2 ft. swing.

Maker Peck Stow & Willcox.

MOTORS

MOTOR H. P. 30 - 220 Volts.

Maker General Electric Company.

MOTOR H. P. 40 - 240 Volts.

Maker Bullock Elec. Mfg. Co.

PLANERS

#136 PLANNER - 40" plane.

Maker Bement Mills & Co.

#137 PLANNER - 40" plane.

Tool post head.

Maker Niles Tool Works.

APPENDIX D

1913 Precision Machine Shop Inventory

EDISON LABORATORY

Inventory taken October 1913.

SECOND FLOOR MACHINE SHOP.

PRICE

LATHE NO. 1 - 10" swing, 27" center
Acc. Two chucks one face-plate
bought from Mr. Manning,
came from "works"

LATHE NO. 3 - 13" swing 26" center
maker Prentiss Co.
bought from " " "
Acc. one chuck one Face-Plate

LATHE NO. 4 - 14" swing, 30" center
Acc. one chuck 10" steady rest
drill chuck Alenon,
maker Hendey Machine Co.

LATHE NO. 5 - 14" swing, 34" center
Acc. chuck 12" center drill
(2) face-plates, steady rest
maker R. E. Le Blond

LATHE NO. 7 - 16" swing, 36" center
(2) chucks 9" & 12"
face-plate 15"
maker Hendey Machine Co.

LATHE NO. 8 - 16" & 34" swing 40" center
Acc. (2) face-plates 36" & 15", chuck
adjustable lathe.
Maker Pratt & Whitney.

EDISON LABORATORY
Inventory taken October 1915.
SECOND FLOOR MACHINE SHOP.

9 1/2" lathe
5 1/2" lathe
7 1/2" lathe
3 Shapers
PRICE
4 miller machine
1 1/2" lathe
1 1/2" lathe
1 1/2" lathe
1 1/2" lathe
2 1/2" lathe
2 1/2" lathe

LATHE NO. 1 - 10" swing, 27" center
Acc. Two chucks one face-plate
bought from Mr. Manning,
came from "works"

✓ LATHE NO. 3 - 15" swing 26" center
maker Prentiss Co.
bought from " "

Acc. one chuck one Face-Plate

✓ LATHE NO. 4 - 14" swing, 30" center
Acc. one chuck 10" steady rest
drill chuck Alenon,
maker Hendey Machine Co.

✓ LATHE NO. 5 - 14" swing, 34" center
Acc. chuck 12" center drill
(2) face-plates, steady rest
maker R. E. Le Blond

LATHE NO. 7 - 16" swing, 36" center
(2) chucks 9" & 12"
face-plate 15"
maker Hendey Machine Co.

✓ LATHE NO. 8 - 16" & 34" swing 40" center
Acc. (2) face-plates 36" & 15", chuck
adjustable lathe.
Maker Pratt & Whitney.

SECOND FLOOR MACHINE SHOP

PRICE

✓ LATHE NO. 9 - 10" swing, 34" center

Acc. (7) spring chucks, chuck
face-plate 10" steady rest
maker Pratt & Whitney

✓ LATHE NO. 10 - 12" swing, 24" center

speed lathe. Acc. chuck
polishing disc.

Maker Honley Machine Co.

✓ ? LATHE NO. 11 - 12" swing, 30" center

Acc. chuck (9) spring chucks
(2) face-plates, steady rest
drill-chuck.

Maker Pratt & Whitney

LATHE NO. 12 - 7" swing, 19" center

Acc. using those listed with
lathe #13 bench lathe.

Maker Sloan & Chase

✓ LATHE NO. 13 - (bench) 7" swing, 19" center

Acc. set spring chucks, side rest
hand rest.

Maker Sloan & Chase.

LATHE NO. 14 - (bench) Am. Watch Tool Company,

4" swing, 4" center

Acc. set spring chucks, grinding fixture
thread cutting att. 5 chucks
face-plate, steady rest.

SECOND FLOOR MACHINE SHOP.

PRICE

LATHE NO. 33 - (Bench) 7" swing, 19" center

Acc. (17) special chucks,

(4) chucks, face-plate,

steady-rest.

Maker Sloan & Chase.

LATHE NO. 34 - 7" swing, 19" center

(Bench) Acc. Milling att.

special step chucks, internal

grinding att.

Maker Sloan & Chase.

SECOND FLOOR DRILL PRESSES.

DRILL PRESS NO. 15 - 10" table

Maker W.F. & J. Barnes & Co.

Circular table single spindle.

DRILL PRESS NO. 15 (a) Single spindle - no name

DRILL PRESS NO. 16 (a) 10-3/4" table

Single spindle - small - no name

DRILL PRESS NO. 17 - 9-1/2" x 15" table

double spindle (1) Jacobs drill

chuck. Maker Pratt & Whitney

DRILL PRESS NO. 18 - 12" x 19" table

double spindle.

Maker, The Fox Mfg. Co.

SECOND FLOOR DRILL PRESSES

PRICE

DRILL PRESS NO. 19 - 10-1/2" x 16-1/2"

double spindle

Maker W. Gardner & Son.

DRILL PRESS NO. 49 - 4-3/4" x 6" table

Sensitive bench.

Maker W. Gardner & Son.

SHAPER

SHAPER NO. 20 - (Friction)

18" stroke, maker Hendey Co.

bought from Manning Maxwell Co.

✓ SHAPER NO. 21 - 10" to 16" stroke

maker Gould & Eberhardt

✓ SHAPER NO. 22 - 15" stroke

Maker Potter & Johnson CO.

MILLING MACHINES.

MILLING MACHINE NO. 23 - 25" x 8" x 18"

Mfg. #2a

Universal acc.

Index center

Profile att.

Maker Brown & Sharp

MILLING MACHINE NO. 24 - 25"x 8"x 18", Mfg. #2

Acc. Arbors & Index center.

Maker Brown & Sharp.

MILLING MACHINES

PRICE

MILLING MACHINE NO. 25 - Mfg. #38a

Acc. spring chuck

& profile att.

Maker Chicago Mach.

Tool Company.

MILLING MACHINE NO. 26 - Acc. Index center

Universal

Maker Brown & Sharpe

GRINDERS

✓ GRINDER NO. 30 - 12" x 40"

Universal

Acc. chuck 8"

Maker Brown & Sharpe

✓ GRINDER NO. 31 - Mfg. #2

Maker A.W. Putnam & Son,

Bought from Prentiss Tool Co.

GRINDSTONES

✓ GRINDSTONE NO. 36 - Mfg. #2

Geo. L. Cummings

HACKSAWS

POWER HACK-SAWS NO. 28 - 5" stroke

Maker, The R. C. Company

✓ SHEARS NO. 35 - Mfg. #150A

Peck Stow & Willcox

HACKSAWS

PRICE

✓ PLANNER NO. 32 - 42" x 14" Table
maker E. Bullard

✓ ROLLS NO. 27 - Face of rolls 5"
Maker Cement Wiles & Co.

[ANVILS] ANVILS (2) NO. 28.

✓ PUNCH PRESS NO. 29 - Mfg. #10
Maker Stiles & Parker Co.

ARBOR PRESSES

✓ ARBOR PRESS NO. 46 - Mfg. #2
Maker Greenard Co.

✓ ARBOR PRESS NO. 47 - Mfg. #3
Maker Greenard Company

ARBOR PRESS NO. 48 - Maker Greenard Co.

VICES

VICE NO. 4 - Mfg. No. 21.

The Parker Company

✓ VISE NO. 8 - Mfg. #21 x

✓ VISE NO. 4 - Mfg. #22 x

The Parker Company

VICE NO. 4 - Mfg. #B B

The Parker Company

VICE NO. 2 - Mfg. #90

Prentiss Vise Company

✓ VISE NO. 9 - Mfg. #22

The Parker Company

VICES

PRICE

| | | | |
|---------------|---|--------------------|--|
| ✓ VISE NO. 10 | - | Mfg. #22 | |
| | | The Parlor Company | |
| VISE NO. 11 | - | Mfg. #21 | |
| | | The Parlor Company | |
| ✓ VISE NO. 12 | - | Mfg. #22 x | |
| | | The Parlor Company | |
| VISE NO. 13 | - | Mfg. #271-1/2 | |
| | | The Parlor Company | |
| ✓ VISE NO. 14 | - | Mfg. #22 | |
| | | The Parlor Company | |
| VISE NO. 15 | - | Mfg. #21 x | |
| | | The Parlor Company | |
| VISE NO. 16 | - | Mfg. #21 x | |
| | | The Parlor Company | |
| VISE NO. 17 | - | Mfg. #21 x | |
| | | The Parlor Company | |
| VISE NO. 18 | - | Mfg. #21 x | |
| | | The Parlor Company | |
| VISE NO. 19 | - | Mfg. #22 x | |
| | | The Parlor Company | |
| VISE NO. 20 | - | Mfg. #22 x | |
| | | The Parlor Company | |
| VISE NO. 21 | - | Mfg. #21 | |
| | | The Parlor Company | |
| VISE NO. 22 | - | Mfg. #B.B. | |
| | | The Parlor Company | |
| VISE NO. 23 | - | Mfg. #B.B. | |
| | | The Parlor Company | |

-8-

VICES

PRICE

VICE NO. 24 - Mfg. #21

The Parker Company

VICE NO. 25 - Mfg. #21 x

The Parker Company

APPENDIX E

1920 Pattern Shop, Heavy Machine Shop, and Precision Machine Shop Inventories

Thomas A. Edison, Laboratory, Valley Road, West Orange, N. J.

— Building #3 —

— Pattern Shop, Machine, —

| | | | |
|---|---|----------|------------|
| ✓ #1 | 1 Frank H. Clements B-36" Band Saw Table, tilting top, | \$135.00 | |
| 2. | 1 - 12" Speed Lathe - 4 ft. - | 50.00 | |
| ✓ 3. | 1 Beach, Brown & Co. Tilting Saw Bench, all iron, adjusting arbor. | 125.00 | |
| ✓ 4. | 1 Crescent Machine Co. Self-contained Counter Tilting Saw Bench, one saw and guard. | 140.00 | |
| ✓ 5. | 1 - 24" Jointer - 48" bed. | 150.00 | |
| ✓ 6. | 1 Day 24" Patternmaker's Lathe, 12-ft. iron shears, rear face plate, | 200.00 | |
| ✓ 7. | 1 Drill, Press for boring wood - 12" swing, | 45.00 | |
| ✓ 8. | 1 J. E. Hoppen Grindstone and frame, stone 24" x 4" | 12.00 | |
| ✓ 9. | 1 Fox Machine Co. #6-F Universal Trimmer, | 110.00 | |
| 10. | 1 Oliver #0 Trimmer, | 15.00 | |
| 11. | 1 Crocker-Wheeler 15 H. P. Motor, 800 R. P. M. | 350.00 | - new 6.2 |
| ✓ 12. | 1 Day Mfg. Co. Jig Saw, (in Basement) | 50.00 | 1,382.00 |
| — <u>Total of Machines in Pattern Shop,</u> — | | | \$1,382.00 |

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— Building #3. —

— BASEMENT. SHAFING. —

| | | | |
|--|----------------------|---------|----------|
| 1 Shaft | 42' x 1 15/16" | \$21.00 | |
| 8 Post Hangers | x " | 40.60 | |
| 2 Couplings | x " | 12.60 | |
| 2 Collars | x " | 1.40 | |
| 1 Pulley | 16" x 9" iron, | 5.04 | |
| 1 " | 20" x 4" iron split, | 6.20 | |
| 1 " | 20" x 6" I. S. | 7.60 | |
| 1 " | 22" x 6" S. S. | 8.22 | |
| 1 " | 22" x 9" I. S. | 10.04 | |
| 1 " | 24" x 10" I. S. | 12.52 | |
| 1 " | 26" x 9" I. S. | 13.56 | |
| 1 " | 26" x 10" I. S. | 14.44 | |
| 1 " | 44" x 6" I. S. | 22.28 | |
| Cost of installing, | | 48.00 | 223.50 |
| — Total of Shafting in Basement, Bldg. #3, — | | | \$223.50 |

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #3. —

— PATTERN AND CARPENTER SHOP. —

— BELTING TO OPERATE MACHINES. —

Band Saw Table #1.

| | | | |
|--------|------------------|--------|--------|
| 1 Belt | 13' x 3" single, | \$4.68 | \$4.68 |
|--------|------------------|--------|--------|

Speed Lathe. #2.

| | | | |
|--------|----------------------|------|------|
| 1 Belt | 12' x 1 1/4" single, | 1.80 | |
| 1 " | 22' x 2" " | 5.28 | 7.08 |

Jointer #5.

| | | | |
|--------|------------------|-------|-------|
| 1 Belt | 22' x 5" double, | 24.60 | |
| 1 " | 19' x 5" " | 22.80 | 47.40 |

Crescent Saw Bench. #4.

| | | | |
|--------|------------------|-------|-------|
| 1 Belt | 9' x 3" single, | 3.24 | |
| 1 " | 15' x 5" double, | 18.00 | 21.24 |

Grindstone. #8.

| | | | |
|--------|------------------|------|------|
| 1 Belt | 14' x 2" single, | 3.36 | 3.36 |
|--------|------------------|------|------|

Drill Press. #7.

| | | | |
|--------|---------------------|------|------|
| 1 Belt | 4' x 1 1/4" single, | .60 | |
| 1 " | 7' x " " | 1.05 | |
| 1 " | 14' x " " | 2.10 | 3.75 |

Beach-Brown Saw Bench. #3.

| | | | |
|--------|------------------|-------|-------|
| 1 Belt | 9' x 4" single, | 4.32 | |
| 1 " | 13' x 4" double, | 12.48 | 16.80 |

Forward, — 104.31

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #3. —

— PATTERN AND CARPENTER SHOP. —

— BELTING. (continued) —

Brought forward, — \$104.31

Jig Saw. In Basement. #12. —

| | | | |
|--------|------------------|--------|------|
| 1 Belt | 15' x 2" single, | \$3.60 | 3.60 |
|--------|------------------|--------|------|

Fay Patternmaker's Lathe. #6. —

| | | | |
|--------|------------------|------|--|
| 1 Belt | 26' x 3" single, | 8.36 | |
|--------|------------------|------|--|

| | | | |
|-----|------------|-------|-------|
| 1 " | 48' x 4" " | 23.04 | 31.40 |
|-----|------------|-------|-------|

Motor. #11. —

| | | | |
|--------|------------------|-------|-------|
| 1 Belt | 34' x 6" double, | 48.96 | 48.96 |
|--------|------------------|-------|-------|

| | | | |
|--------------------------------------|--|----------|--|
| — Total of Belting in Building #3, — | | \$188.27 | |
|--------------------------------------|--|----------|--|

1920

— BUILDER #5

FIRST FLOOR. Machines.

| | | | |
|-------------|--|----------|------------|
| #1. | 1 La Blom Machine & Tool Co. Engine Lathe 16" x 8' with taper attachment, O. S. | \$650.00 | |
| 2. | 1 E. P. Bullard Co. Engine Lathe 20" x 8' O. S. | 525.00 | |
| 3. | 1 E. P. Bullard Co. Engine Lathe 20" x 10' O.S. | 1,000.00 | |
| 4. | 1 Putnam Machine Co. Engine Lathe 30" x 12' - Light Pattern | 1,200.00 | |
| 5. | 1 Fifield Tool Co. Engine Lathe 30" x 17' | 1,300.00 | |
| 6. | 1 Charles G. Allen Co. 14" Double Spindle Drill Press | 250.00 | |
| 7. | 1 Landis Tool Co. Universal Differential Grinder. | 850.00 | |
| 8. | 1 Fox Machine Co. 15" Double Spindle Drill Press, | 110.00 | |
| 9. | 1 Lucius W. Pond 12" x 3'8" Speed Lathe, | 50.00 | |
| 10. | 1 Double Emery Stand on Wood frame, 2 stones 12" x 12" - Complete with countershaft, | 25.00 | |
| 11. | 1 Greenard #3 Arbor Press, | 30.00 | |
| 12. | 1 Gould & Eberhardt 16" Eight Duty Shaper | 800.00 | |
| 13. | 1 La Blom Co. 16" x 6' Engine Lathe, O.S. | 700.00 | |
| 14. | 1 Fay & Scott 20" x 7' Engine Lathe, friction head and 4-way tool post, | 700.00 | |
| 15. | 1 Aurora Tool Works 26" Back-gear'd Drill Press, | 300.00 | |
| 16. | 1 Ferracute Machine Co. #54 Power Press | 850.00 | |
| 16A. | 1 - 36" Straightening Plate on wooden frame stand, | 40.00 | 9,390.00 |
| — Forward — | | | \$9,390.00 |

1920

— BUILDING #5 —

— FIRST FLOOR, MACHINES (continued) —

| | | | |
|-----------------|---|------------|-------------|
| Brought Forward | | \$9,300.00 | |
| #17. | 1 B. F. Barnes Co. 27" Drill Press, | \$200.00 | |
| 18. | 1 Bement, Niles & Co. Planer
42" x 42" x 12'8" - one side
head, one head on cross rail | 2,100.00 | |
| 18A. | 1 Millers Falls Mfg. Co. Star Hack
Saw, | 20.00 | |
| 19. | 1 Bement, Niles & Co. #1558 - 60"
Radial Drill Press,
Universal O. S. | 1,300.00 | |
| 20. | 1 Miles Tool Works 48" Boring and
Turning Mill, | 2,000.00 | |
| 21. | 1 Ballard Motor Mfg. Co. Electric
Motor, #18356, 1100 R.P.M.
240 volts, 40 H. P. | 550.00 | |
| | 1 General Electric Co. Motor,
#106793, 220 volts,
117 amperes, 35 H. P. | 500.00 | |
| 22. | 1 Grindstone and Furnace,
stone 24" x 6' | 20.00 | |
| 23. | 1 Miles Tool Works 36" x 36" x 8'
Planer, 2 heads on cross
rails, one-side head, | 1,800.00 | |
| 25. | 1 Maday Machine Co. 12" Shaper, O. S. | 200.00 | |
| 27. | 1 Miles Tool Works Shaper - 6 ft.
traveling head, 2 tables,
stroke 24" x 30" | 1,800.00 | |
| 29. | 1 W. C. Youngs & Co. #8 Combination
Shears and Punch | 145.00 | |
| 30. | 1 Gould & Eberhardt 16" Shaper, | 800.00 | |
| 31. | 1 Brown & Sharp Mfg. Co. #2-A Univer-
sal Milling Machine,
single pulley drive, | 1,100.00 | |
| 33. | 1 Brown & Sharp #5 Milling Machine,
cone drive, | 1,500.00 | |
| 34. | 1 La Blond Milling Machine - #3 -
Oil Tank and Pump, cone
drive, vertical miller
attached, | 1,300.00 | \$15,335.00 |

72 Forward

\$24,715.00

1920
BUILDING # 5.

FIRST FLOOR. MACHINES (continued)

| | | |
|---|---|-------------|
| Brought forward, | | \$24,715.00 |
| #35. | 1 Gould & Eberhardt 20" Shaper, | \$900.00 |
| 36. | 1 Aurora Tool Works 25" Back-geared Drill Press, | 300.00 |
| 37. | 1 Bines Machine Co. Surface Grinding Machine 21" x 6" O. S. Walker Magnetic Chuck | 400.00 |
| 38. | 1 Hendey Machine Co. Engine Lathe 15" x 8' - taper attachment | 900.00 |
| 39. | 1 Flather & Co. 15" x 8' Engine Lathe, | 650.00 |
| 40. | 1 Rivett Precision Bench Lathe 8" x 4 1/2" grinding attachment - slide rest. | 500.00 |
| 41. | 1 Rivett Precision Bench Lathe 8" x 4 1/2" - grinding attachment, | 450.00 |
| 42. | 1 Le Blond 21" x 8' Engine Lathe, No. Q. C. | 900.00 |
| 43. | 1 Pratt & Whitney Co. 14" Belt-driven Drill Press - 1 Spindle single drill, | 20.00 |
| | | 5,050.00 |
| — Total of Machines, Bldg. #5, First Floor, | | \$29,775.00 |

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #5. —

— FIRST FLOOR. SHAFTING. —

— Shaft #1. —

| | | | |
|---------------------|-----------------|----------|----------|
| 1 Shaft | 88' x 3 7/16" | \$145.20 | |
| 12 Hangers | 30" x " | 285.60 | |
| 4 Couplings | x " | 70.00 | |
| 2 Collars | x " | 3.60 | |
| 1 Pulley | 10" x 3" I. S. | 3.16 | |
| 1 " | 10" x 4" I. S. | 3.68 | |
| 1 " | 10" x 5" I. S. | 4.32 | |
| 2 Pulleys | 8" x 3" S. S. | 5.72 | |
| 1 Pulley | 12" x 5" S. S. | 3.84 | |
| 1 " | 12" x 8" I. S. | 5.96 | |
| 1 " | 14" x 8" S. S. | 6.48 | |
| 1 " | 16" x 4" S. S. | 4.60 | |
| 1 " | 16" x 4" I. S. | 4.80 | |
| 1 " | 16" x 8" I. S. | 7.20 | |
| 1 " | 16" x 10" I. S. | 7.80 | |
| 2 Pulleys | 20" x 4" I. S. | 12.08 | |
| 1 Pulley | 20" x 7" W. S. | 5.88 | |
| 1 " | 20" x 10" W. S. | 9.20 | |
| 1 " | 20" x 10" I. S. | 11.40 | |
| 1 " | 18" x 4" I. S. | 5.40 | |
| 2 " | 24" x 6" I. S. | 19.40 | |
| 2 " | 28" x 10" I. S. | 30.80 | |
| 1 " | 28" x 12" I. S. | 19.24 | |
| 1 " | 38" x 8" I. S. | 17.40 | |
| 1 " | 48" x 16" I. S. | 73.36 | |
| Cost of installing, | | 96.00 | 862.12 |
| — Forward, — | | | \$862.12 |

— BUILDING 75. —

— FIRST FLOOR. SHAFTING. (continued) —

Brought forward, —

\$862.12

Shaft #2. —

| | | |
|-------------|-----------------|----------|
| 1 Shaft | 65' x 3 7/16" | \$107.25 |
| 1 " | 24" x 3 15/16" | 54.72 |
| 9 Hangers | 30" x 3 7/16" | 214.20 |
| 4 " | 30" x 3 15/16" | 92.82 |
| 3 Couplings | x 3 7/16" | 52.52 |
| 1 Coupling | x 3 15/16" | 23.45 |
| 1 Collar | x 3 7/16" | 1.80 |
| 1 " | x 3 15/16" | 2.16 |
| 2 Pulleys | 8" x 5" I. S. | 7.23 |
| 1 Pulley | 10" x 4" I. S. | 3.68 |
| 2 Pulleys | 10" x 5" I. S. | 8.64 |
| 1 Pulley | 10" x 10" I. S. | 5.46 |
| 1 " | 12" x 5" I. S. | 4.64 |
| 2 Pulleys | 14" x 5" I. S. | 9.36 |
| 1 Pulley | 14" x 6" I. S. | 5.32 |
| 2 Pulleys | 14" x 10" I. S. | 14.40 |
| 1 Pulley | 16" x 5" I. S. | 5.36 |
| 1 " | 16" x 8" I. S. | 7.00 |
| 1 " | 16" x 12" I. S. | 9.68 |
| 1 " | 16" x 18" I. S. | 17.88 |
| 1 " | 12" x 10" S. S. | 6.60 |
| 1 " | 14" x 12" I. S. | 8.92 |
| 2 Pulleys | 18" x 5" I. S. | 5.80 |
| 1 Pulley | 18" x 4" I. S. | 5.40 |
| 1 " | 18" x 10" I. S. | 8.52 |
| 1 " | 20" x 8" I. S. | 9.32 |
| 1 " | 24" x 8" S. S. | 10.56 |
| 1 " | 20" x 8" I. S. | 12.80 |
| 1 " | 30" x 10" S. S. | 15.92 |
| 1 " | 48" x 16" I. S. | 73.36 |

Cost of installing,

96.00 900.82

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING "5." —

— FIRST FLOOR. SHAFTING. (continued) —

Brought forward, — 1,752.94

Shaft #3. —

| | | |
|------------|-----------------|-------|
| 1 Shaft: | 12' x 2 3/16" | 37.62 |
| 3 Hangers: | 30" x " | 32.34 |
| 2 Collars | x " | 1.60 |
| 1 Pulley | 20" x 10" I. S. | 10.40 |
| 1 " | 26" x 8" I. S. | 12.20 |
| 1 " | 34" x 6" I. S. | 18.01 |

Cost of installing, 21.00 103.90

— Total of Shafting, First Floor, Bldg. #5, — 1,856.84

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #5. —

— FIRST FLOOR. BELTING. (continued) —

| | | | |
|------------------------|-----------------------|-------|----------|
| — Brought forward, — | | | \$144.11 |
| — #8. Drill Press. — | | | |
| 2 Belts | 6'6" x 1 1/4" single, | 0.98 | |
| 2 " | 6' x 1 1/2" " | 1.08 | |
| 1 Belt | 27' x 1 1/4" " | 4.05 | |
| 1 " | 27' x 2" " | 6.48 | 12.59 |
| — #9. Speed Lathe. — | | | |
| 1 Belt | 18' x 1" single, | 2.16 | |
| 1 " | 31' x 2" " | 7.44 | 9.60 |
| — #10. Emery Stand. — | | | |
| 1 Belt | 13' x 2" single, | 3.12 | |
| 1 " | 14' x 1 1/4" " | 2.10 | 5.22 |
| — #12. Shaper. — | | | |
| 1 Belt | 23' x 2 1/2" double, | 13.80 | |
| 1 " | 33' x 4" single, | 15.84 | 29.64 |
| — #13. Engine Lathe. — | | | |
| 1 Belt | 24' x 2 1/2" single, | 7.20 | |
| 1 " | 26' x 3 1/2" " | 10.92 | 18.12 |
| — #14. Engine Lathe. — | | | |
| 1 Belt | 24' x 3" double, | 17.28 | |
| 1 " | 25' x 4" " | 24.00 | 41.28 |
| — #15. Drill Press. — | | | |
| 1 Belt | 14' x 2 1/2" double, | 8.40 | |
| 1 " | 29' x 2 1/2" " | 10.44 | |
| 1 " | 27' x 4" single, | 17.40 | 36.24 |
| — Forward, — | | | \$296.90 |

Thomas A. Wilson, Inc., Laboratory, Valley Road, West Orange, N. J.

— WINDING 15. —

— FIRST FLOOR. BUILDING. (continued) —

— Freight forward, — \$295.80

— 116. Power Press. —

| | | | |
|--------|------------------|--------|-------|
| 1 Belt | 22' x 4" double, | 421.12 | |
| 1 " | 51' x 4" " | 29.76 | 50.88 |

— 117. Drill Press. —

| | | | |
|--------|------------------|-------|-------|
| 1 Belt | 14' x 3" double, | 10.08 | 10.08 |
|--------|------------------|-------|-------|

— 118. Planer. —

| | | | |
|--------|----------------------|-------|-------|
| 1 Belt | 30' x 2" single, | 7.30 | |
| 1 Belt | 34' x 2" " | 8.16 | |
| 1 " | 31' x 3 1/2" double, | 26.04 | 41.50 |

— 119. Drill Press. —

| | | | |
|--------|------------------|-------|-------|
| 1 Belt | 26' x 3" single, | 8.23 | |
| 1 " | 33' x 4" double, | 31.68 | 39.91 |

— 119A. Neck Saw. —

| | | | |
|--------|------------------|------|------|
| 1 Belt | 30' x 5" single, | 2.88 | 2.88 |
|--------|------------------|------|------|

— 120. Boring Mill. —

| | | | |
|--------|----------------------|-------|-------|
| 1 Belt | 19' x 1 1/2" single, | 5.70 | |
| 1 " | 27' x 5" double, | 19.44 | 25.14 |

— 121. Motor. —

| | | | |
|--------|-------------------|--------|--------|
| 1 Belt | 50' x 12" double, | 120.00 | 120.00 |
|--------|-------------------|--------|--------|

— 121A. Motor. —

| | | | |
|--------|-------------------|--------|--------|
| 1 Belt | 50' x 12" double, | 120.00 | 120.00 |
|--------|-------------------|--------|--------|

— 122. Planer. —

| | | | |
|--------|----------------------|-------|-------|
| 1 Belt | 30' x 2" single, | 7.30 | |
| 1 " | 34' x 2" " | 8.16 | |
| 1 " | 31' x 3 1/2" double, | 26.04 | 41.50 |

— Forward, — 745.99

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING "5. —

— FIRST FLOOR. BELTING. (continued) —

| | | | |
|--------------------------------|----------------------|--------------|------------|
| --- Brought forward, --- | | | \$748.69 |
| --- #23. Planer. --- | | | |
| 1 Belt | 23' x 3" single, | \$5.52 | |
| 1 " | 24' x 3" double, | 17.28 | |
| 1 " | 23' x 4" " | <u>31.68</u> | 54.48 |
| --- #25. Shaper. --- | | | |
| 1 Belt | 23' x 3 1/2" double, | 13.80 | |
| 1 " | 22' x 3" single, | <u>10.52</u> | 24.32 |
| --- #27. Shaper. --- | | | |
| 1 Belt | 25' x 3" double, | 18.00 | |
| 1 " | 26' x 3 1/2" " | <u>21.84</u> | 39.84 |
| --- #29. Punch and Shears. --- | | | |
| 1 Belt | 21' x 4" double, | <u>20.16</u> | 20.16 |
| --- #30. Shaper. --- | | | |
| 1 Belt | 23' x 3 1/2" double, | 13.80 | |
| 1 " | 32' x 3" single, | <u>10.52</u> | 24.32 |
| --- #31. Milling Machine. --- | | | |
| 1 Belt | 25' x 3" double, | 17.28 | |
| 1 " | 24' x 3" single, | <u>8.64</u> | 25.92 |
| --- #33. Milling Machine. --- | | | |
| 1 Belt | 25' x 4 1/2" double, | 27.00 | |
| 2 Belts | 20' x 4" double, | <u>19.20</u> | 46.20 |
| --- #35. Milling Machine. --- | | | |
| 1 Belt | 25' x 3 1/2" double, | 21.00 | |
| 2 Belts | 20' x 4" double, | <u>19.20</u> | 40.20 |
| --- Forward, --- | | | \$1,034.13 |

Thomas A. Wilson, Inc., 1000 Valley Road, West Grove, Pa.

BUILDING M.

FIRST FLOOR. BUILDING. (continued)

| | | | |
|-----------------------|----------------------|---------|----------|
| Brought forward, | | | 1,064.13 |
| #35. Shaper. | | | |
| 1 Belt | 37' x 2 1/2" double, | \$10.40 | |
| 1 " | 37' x 2 1/2" " | 16.60 | 27.00 |
| #36. Drill Press. | | | |
| 1 Belt | 30' x 5" double, | \$1.60 | |
| 1 " | 13' x 5 1/2" circle, | 3.90 | |
| 1 " | 13' x 5" circle, | 6.84 | 52.34 |
| #37. Surface Grinder. | | | |
| 1 Belt | 30' x 1" circle, | 4.50 | |
| 1 " | 17' x 3" " | 6.13 | 10.63 |
| #38. Engine Lathe. | | | |
| 1 Belt | 23' x 1 1/2" circle, | 7.50 | |
| 1 " | 13' x 1 1/2" " | 3.90 | 11.40 |
| #39. Engine Lathe. | | | |
| 1 Belt | 23' x 1 1/2" circle, | 7.50 | |
| 2 Belts | 11' x 3" circle, | 10.00 | 17.50 |
| #40. Bench Lathe. | | | |
| 1 Belt | 11' x 5/4" single, | ... | |
| 2 Belts | 9' x 1" " | 5.10 | |
| 1 Belt | 10' x 2" " | 1.20 | |
| 1 " | 10' x 2" " | 2.40 | 6.70 |
| Forward, | | | 1,120.33 |

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING "5." —

— FIRST FLOOR. BELTING. (continued) —

Brought forward, ————— \$1,129.88

#41. Bench Lathe. —

| | | | |
|--------|------------------|--------|------|
| 1 Belt | 13' x 1" single, | \$1.50 | |
| 1 " | 9' x 3/4" " | .91 | 2.37 |

#42. Engine Lathe. —

| | | | |
|--------|------------------|------|-------|
| 1 Belt | 23' x 3" single, | 9.00 | |
| 1 " | 18' x 3" " | 6.43 | 15.43 |

#43. Drill Press. —

| | | | |
|-----------------|-------------------|-------|-------|
| 1 Belt | 5' x 3/4" single, | .45 | |
| 1 " | 5' x 1 1/4" " | .75 | |
| 1 " | 14' x 1 1/2" " | 2.52 | |
| 1 " | 10' x 3" " | 5.60 | 7.32 |
| 1 Up Drive Belt | 23' x 5" double, | 43.20 | |
| 1 Cross " " | 27' x 7" " | 41.50 | 44.50 |

— Total of belting, Bldg. 5, First Floor, — 1,201.61

1920

BULLETIN #5.

SECOND FLOOR MACHINERY

| | | | |
|---------|---|---------|------------|
| 1. | 1 Peck, Stowe & Wilcox Co. Boring Machine, | \$50.00 | |
| 2. | 1 Niagara Shaping Machine, | 75.00 | |
| 3. | 1 Pratt & Whitney 10" x 5' Precision Lathe, raise and fall rest C. S. | 500.00 | |
| 4. | 1 Pratt & Whitney 10" x 5' Precision Lathe, raise and fall rest, | 500.00 | |
| 5. | 1 Potter-Johnson 15" Stroke Shaper, swivel-table, R. D. P. | 550.00 | |
| 6. | 1 Gould & Berhardt 16" Shaper, | 600.00 | |
| 7. | 1 Brown & Sharp #2 Surface Grinder, D. & P. Farn Co. Magnetic Chud 17" x 6" | 400.00 | |
| 8. | 1 Brown & Sharp #3 Cutter Grinder, | 300.00 | |
| 8A. | 1 Crocker-Wheeler B. H. P. Motor, 930 R. P. M. | 110.00 | |
| 9. | 1 Sloane & Chase Co. Precision Bench Lathe 7' x 36" - #2, | 175.00 | |
| 10. | 1 Gas Garnaco for soldering copper, | 40.00 | |
| 11. | 1 Peck-Stowe & Wilcox 32" Squaring Shears | 75.00 | |
| 12. | 1 Sloane & Chase Co. Precision Bench Lathe #5 1/2, O. S. | 100.00 | |
| 13. | 1 W. F. & John Barnes Screw Arbor Press | 75.00 | |
| 14. | 1 - 11" Drill Press, O. S. | 45.00 | |
| 15. | 1 Charles G. Allen 14" Double Spindle Drill Press, | 250.00 | |
| 16. | Rolling Mill Rollers 5" x 3" | 80.00 | |
| 17. | 1 Cochran Bly Co. #2 Filing Machine | 60.00 | |
| 17A. | 1 George Gorton Planographic Engraving Machine, | 500.00 | 4,315.00 |
| Forward | | | \$4,815.00 |

1920

BUILDING #3.

SECOND FLOOR. MACHINES (continued)

| | | |
|------------------|---|------------|
| Brought forward— | | \$4,816.00 |
| #18. | 1 Metal Circular Saw 22" x 25" | \$45.00 |
| 19. | 1 Fox Machine Co. 14" Double Spindle Drill Press, | 110.00 |
| 20. | 1 Silver Mfg. Co. 20" Drill Press power feed, | 100.00 |
| 22. | 1 American Gas & Furnace Co. #18 Gas Heating Furnace, | 65.00 |
| 23. | Miscellaneous Machines and 3 Small Motors, | 300.00 |
| 24. | 1 American Gas & Furnace Co. High-pressure Blower, | 30.00 |
| 25. | 1 Greenard #3 Arbor Press, | 30.00 |
| 26. | 1 Greenard #2 " " | 10.00 |
| 27. | 1 Crocker-Wheeler Co. 15 H. P. Electric Motor, 1500 R.P. M. | 350.00 |
| 28. | 1 E. P. Bullard 16" x 16" x 4" Planer, O. S. | 250.00 |
| 29. | 1 Brown & Sharp Mfg. Co. #1 Plain Universal Milling Machine without arm, O. S. | 200.00 |
| 30. | 1 Pratt & Whitney Co. #10 Drill Press, | 45.00 |
| 31. | 1 - 10" Drill Press, | 30.00 |
| 32. | 1 Hendey & Norton #2 Universal Milling Machine, | 1,200.00 |
| 33. | 1 Pratt & Whitney Co. Adjustable-bed Engine Lathe 16" x 32" x 6' Gap Lathe, O. S. | 800.00 |
| 34. | 1 Brown & Sharp Mfg. Co. #2 Universal Milling Machine, bolt feed, | 900.00 |
| 35. | 1 Speed Lathe 12" x 14" - used for buffing, | 45.00 |
| 36. | 1 S. W. Putnam & Sons #2 Cutter Grinder, O. S. | 40.00 |
| 37. | 1 Iron-base Double Emery Grinder, | 25.00 |
| 38. | 1 Crindstone and frame, stone 24" x 4" | 25.00 |
| 39. | 1 R. K. Lo Blod Machine Tool Co. 14" x 6' Engine Lathe, O. S. | 550.00 |
| Forward— | | 5,150.00 |
| | | \$9,966.00 |

1920

BUILDING #5.

SECOND FLOOR. MACHINES (continued)

| | | |
|---|--|-------------|
| Brought forward | | \$9,965.00 |
| #40. | 1 Henley Machine Co. 14" x 6' Engine Lathes, taper attachment, | \$700.00 |
| 41. | 1 Hendey Machine Co. 14" x 6' Engine Lathes, Taper attachment, | 900.00 |
| 42. | 1 Hendey Machine Co. 12" x 5' Engine Lathes, without taper | 500.00 |
| 43. | 1 Brown & Sharp #2-A Universal Milling Machine, single pulley drive, 1 profile attachment used on all millers. | 1,100.00 |
| 44. | 1 Brown & Sharp #1 Universal Grinding Machine | 900.00 |
| 45. | 1 Prentiss Tool Supply Co. 12" x 5' Engine Lathe with taper attachment, | 350.00 |
| 46. | 1 Monarch Co. 16" x 8' Engine Lathe with taper attachment | 700.00 |
| 47. | 1 Surface Plate 24" x 48" x 4" | 50.00 |
| 48. | 1 Stiles & Parker #10 Power Press, | 45.00 |
| 49. | 1 Star Power Co. #30 Hand Saw, | 25.00 |
| 50. | 1 Sloan & Chase #5 1/2 Precision Bench Lathe, grinding attachment, countershaft and compound slide rest, | 175.00 |
| 51. | 1 Sloan & Chase #5 1/2 Precision Bench Lathe, grinding attachment, countershaft and compound slide rest. | 175.00 |
| 52. | 1 Sloan & Chase #5 1/2 Precision Bench Lathe, grinding attachment, countershaft and compound slide rest, | 175.00 |
| 53. | 1 Sloan & Chase #5 1/2 Precision Bench Lathe, grinding attachment, countershaft and compound slide rest, | 175.00 |
| Total of Machines, Bldg. #5
Second Floor | | 5,970.00 |
| | | \$15,935.00 |

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

BUILDING #5. —

SECOND FLOOR. SHAPTING. —

| SHAFT #1. — | | | |
|---------------------|-----------------|---------|--------|
| 1 Shaft | 7'3" x 1 15/16" | \$59.00 | |
| 8 Hangers | 15" x " | 50.40 | |
| 4 Couplings | " x " | 25.20 | |
| 2 Collars | " x " | 1.40 | |
| 1 Pulley | 6' x 5" iron, | 2.24 | |
| 1 " | 6' x 5" S. S. | 5.28 | |
| 1 " | 10" x 5" I. S. | 3.16 | |
| 1 " | 10" x 5" W. S. | 1.95 | |
| 1 " | 11" x 5" I. S. | 3.40 | |
| 1 " | 10" x 4" I. S. | 3.68 | |
| 1 " | 10" x 4" Iron, | 2.44 | |
| 1 " | 10" x 5" S. S. | 3.48 | |
| 1 " | 10" x 5" W. S. | 2.25 | |
| 2 " | 12" x 4" I. S. | 8.72 | |
| 1 " | 12" x 6" I. S. | 4.92 | |
| 1 " | 10" x 5" S. S. | 3.68 | |
| 2 " | 14" x 5" I. S. | 9.92 | |
| 1 " | 14" x 6" S. S. | 4.92 | |
| 1 " | 14" x 8" W. S. | 3.66 | |
| 1 " | 24" x 8" I. S. | 15.23 | |
| Cost of Installing, | | 48.00 | 245.50 |
| Forward, — | | | 245.50 |

— BUILDING #5. —

— SECOND FLOOR. SHAFING. —

Brought forward, \$243.58
— SHAFT #2. —

| | | |
|-------------|-----------------|---------|
| 1 Shaft | 97' x 1 15/16" | \$48.50 |
| 13 Hangers | 15" x " | 87.75 |
| 4 Couplings | x " | 25.20 |
| 2 Collars | x " | 1.40 |
| 1 Pulley | 5" x 3" iron, | 1.56 |
| 1 " | 6" x 6" I. S. | 3.52 |
| 1 " | 8" x 4" S. S. | 3.00 |
| 4 Pulleys | 10" x 2" S. S. | 12.00 |
| 5 " | 10" x 5" I. S. | 18.08 |
| 1 Pulley | 10" x 9" I. S. | 5.56 |
| 1 " | 10" x 3" iron, | 3.16 |
| 3 " | 12" x 3" S. S. | 11.80 |
| 1 Pulley | 12" x 3" I. S. | 3.52 |
| 2 Pulley | 12" x 4" S. S. | 9.00 |
| 1 Pulley | 12" x 6" I. S. | 4.92 |
| 1 " | 12" x 7" I. S. | 5.68 |
| 4 Pulleys | 14" x 5" I. S. | 19.84 |
| 3 " | 14" x 4" I. S. | 14.40 |
| 1 Pulley | 8" x 5" iron, | 2.28 |
| 3 Pulleys | 10" x 4" I. S. | 11.04 |
| 3 " | 10" x 8" iron, | 9.72 |
| 1 Pulley | 10" x 8" I. S. | 5.00 |
| 1 " | 10" x 6" I. S. | 4.20 |
| 1 " | 12" x 4" iron, | 4.36 |
| 1 " | 12" x 6" S. S. | 4.52 |
| 1 " | 12" x 9" I. S. | 6.28 |
| 1 " | 16" x 4" I. S. | 4.60 |
| 1 " | 16" x 5" I. S. | 5.36 |
| 1 " | 16" x 6" I. S. | 5.76 |
| 1 " | 16" x 3" iron, | 2.88 |
| 1 " | 16" x 10" I. S. | 7.80 |
| 1 " | 6" x 8" S. S. | 7.64 |

Cost of installing,

78.00 438.33

Forward,

661.91

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

BUILDING #5.

SECOND FLOOR. SHAFTING. (continued)

Brought forward, \$681.91

SHAFT #3.

| | | | |
|---------------------|----------------|--------|-------|
| 1 Shaft | 9' x 1 15/16" | \$4.50 | |
| 2 Hangers | 15" x " | 10.95 | |
| 2 Collars | x " | 1.40 | |
| 1 Pulley | 12" x 6" I. S. | 4.92 | |
| 1 " | 12" x 8" I. S. | 6.05 | |
| 1 " | 14" x 4" iron, | 4.68 | |
| 1 " | 16" x 4" S. S. | 4.60 | |
| Cost of Installing, | | 14.00 | 51.10 |

Total of Shafting, Bldg. #5, Second Floor, \$733.01

— BUILDING #5. —

— SECOND FLOOR. BELTING TO OPERATE MACHINES. —

| | | | | |
|-----------------------------------|----------------------|--------|---------|--|
| — #3. Engine Lathe. — | | | | |
| 1 Belt | 16' x 1 1/2" single, | \$2.88 | | |
| 1 " | 16' x 3 1/2" " | 13.44 | 16.32 | |
| — #4. Engine Lathe. — | | | | |
| 1 Belt | 16' x 1 1/2" single, | 2.88 | | |
| 2 Belts | 16' x 2 1/2" " | 4.80 | 7.68 | |
| — #5. Shaper. — | | | | |
| 1 Belt | 19' x 3" single, | 6.84 | | |
| 1 " | 11' x 3" " | 3.96 | 10.80 | |
| — #6. Shaper. — | | | | |
| 1 Belt | 21' x 2 1/2" single, | 6.30 | | |
| 1 " | 11' x 3" " | 3.96 | 10.26 | |
| — #7. Surface Grinding Machine. — | | | | |
| 1 Belt | 35' x 1 1/4" single, | 5.28 | | |
| 1 " | 12' x 3" " | 4.32 | 9.60 | |
| — #8. Grinder. — | | | | |
| 1 Belt | 17' x 1" single, | 2.04 | | |
| 1 " | 11'6" x 2" single, | 2.76 | 4.80 | |
| — #8A. Motor. — | | | | |
| 1 Belt | 30' x 4" single, | 14.40 | 14.40 | |
| — #9. Lathe. — | | | | |
| 1 Belt | 7'8" x 1" single, | .92 | | |
| 3 Belts | 11' x 1" " | 3.96 | | |
| 1 Belt | 30' x 2" " | 7.20 | 12.08 | |
| — Forward, — | | | \$85.94 | |

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #5. —

— SECOND FLOOR. BELTING. (continued) —

| | | | |
|------------------------|-----------------------|--------|----------|
| — Brought forward, — | | | \$85.94 |
| #12. Lathe. | | | |
| 1 Belt | 5' x 1" single, | \$.60 | |
| 1 " | 9' x 1" single, | 1.08 | 1.68 |
| — #14. Drill Press. — | | | |
| 1 Belt | 4'6" x 1" single, | .54 | |
| 1 " | 3'6" x 3/4" " | .40 | |
| 1 " | 17' x 1 1/2" " | 3.06 | 4.00 |
| — #15. Drill Press. — | | | |
| 1 Belt | 11' x 1 1/4" single, | 1.65 | |
| 1 " | 17' x 1 1/2" " | 3.06 | 4.71 |
| — #16. Rolling Mill. — | | | |
| 1 Belt | 21' x 3" single, | 7.56 | 7.56 |
| — #18. Bender. — | | | |
| 1 Belt | 8' x 3" single, | 2.88 | |
| 1 " | 23' x 3" " | 8.28 | 11.16 |
| — #19. Drill Press. — | | | |
| 2 Belts | 5'6" x 1 1/2" single, | .99 | |
| 1 Belt | 18' x 1 1/2" " | 3.24 | |
| 2 Belts | 6'6" x 1" " | 1.56 | 5.79 |
| — #20. Drill Press. — | | | |
| 1 Belt | 11' x 2" single, | 2.64 | |
| 1 " | 2'6" x 1" " | .30 | |
| 1 " | 22' x 2 1/2" " | 6.60 | 9.54 |
| — Forward, — | | | \$130.38 |

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #5. —

— SECOND FLOOR. BELTING. (continued) —

| | | | | |
|---------------------------|-----------------------|--------|-------|----------|
| — Brought forward, — | | | | \$130.38 |
| — #24. Blower. — | | | | |
| 1 Belt | 16' x 2" single, | \$3.84 | 3.84 | |
| — #38. Grindstone. — | | | | |
| 1 Belt | 20' x 2" single, | 4.80 | 4.80 | |
| — #27. Motor. — | | | | |
| 1 Belt | 26' x 6" double, | 37.44 | 37.44 | |
| — #28. Planer. — | | | | |
| 2 Belts | 23' x 1/2" single, | 4.14 | | |
| 1 Belt | 17' x 4" double, | 16.32 | 20.46 | |
| — #29. Milling Machine. — | | | | |
| 1 Belt | 4'8" x 1" single, | .56 | | |
| 1 " | 5' x 3/4" " | .55 | | |
| 1 " | 16' x 3" " | 5.76 | | |
| 2 Belts | 19' x 3" " | 13.68 | 20.55 | |
| — #30. Drill Press. — | | | | |
| 1 Belt | 5'6" x 1 1/4" single, | .83 | | |
| 1 " | 5' x 1" " | .60 | | |
| 1 " | 17' x 1 1/2" " | 3.06 | 4.49 | |
| — #31. Drill Press. — | | | | |
| 1 Belt | 5' x 1" single, | .60 | | |
| 1 " | 6' x 1 1/2" " | 1.08 | | |
| 1 " | 18' x 1 1/2" " | 3.24 | | |
| 1 " | 5'6" x 1 1/2" " | .93 | 5.91 | |
| | — Forward, — | | | \$227.87 |

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #5. —

— SECOND FLOOR. BELTING. (continued) —

| | | | | |
|--------------------------------|--------|----------------|--------|----------|
| — Brought forward, — | | | | \$227.87 |
| — #32. Milling Machine. — | | | | |
| 1 Belt | 16' x | 2 1/2" single, | \$4.80 | |
| 2 Belts | 18' x | 3" " | 12.96 | 17.76 |
| — #33. Lathe. — | | | | |
| 1 Belt | 17' x | 2 1/2" single, | 5.10 | |
| 2 Belts | 21' x | 3" " | 15.12 | 20.22 |
| — #34. Milling Machine. — | | | | |
| 1 Belt | 16' x | 3" double, | 11.52 | |
| 2 Belts | 18' x | 4" single, | 17.25 | 28.77 |
| — #35. Speed Lathe. — | | | | |
| 1 Belt | 18' x | 2" single, | 4.32 | |
| 1 " | 13' x | 2" " | 3.12 | 7.44 |
| — #36. Grinder. — | | | | |
| 1 Belt | 18' x | 1 1/2" single, | 3.24 | |
| 1 " | 12' x | 2" " | 2.88 | 6.12 |
| — #37. Double Emery Grinder. — | | | | |
| 1 Belt | 9'6" x | 1 1/2" single, | 1.14 | |
| 1 " | 9' x | 2" " | 2.16 | 3.30 |
| — #39. Lathe. — | | | | |
| 1 Belt | 18' x | 2" single, | 4.32 | |
| 2 Belts | 12' x | 3" " | 8.64 | 12.96 |
| — Forward, — | | | | \$324.44 |

— BUILDING #5. —

— SECOND FLOOR. BELTING (continued) —

| | | | |
|----------------------|--------------------|--------|----------|
| — Brought forward, — | | | \$324.44 |
| — #40. Lathe. — | | | |
| 1 Belt | 17' x 2" single, | \$4.08 | |
| 2 Belts | 21' x 3" " | 15.12 | 19.20 |
| — #41. Lathe. — | | | |
| 1 Belt | 17' x 2" single, | 4.08 | |
| 2 Belts | 19'6" x 2 1/2" " | 11.70 | 15.78 |
| — #42. Lathe. — | | | |
| 1 Belt | 17' x 2" single, | 4.08 | |
| 2 Belts | 19'6" x 2 1/2" " | 11.70 | 15.78 |
| — #43. Miller. — | | | |
| 1 Belt | 17' x 2" double, | 12.24 | |
| 2 Belts | 19' x 3 1/2" " | 31.92 | 44.16 |
| — #44. Grinder. — | | | |
| 1 Belt | 15' x 3/4" single, | 1.45 | |
| 1 " | 17' x 1" " | 2.04 | |
| 1 " | 19' x 1" " | 2.28 | |
| 1 " | 18' x 2 1/2" " | 5.40 | |
| 1 " | 4' x 1 1/4" " | .60 | |
| 1 " | 5' x 1 1/4" " | .75 | 12.52 |
| — #45. Lathe. — | | | |
| 1 Belt | 17' x 2" single, | 4.08 | |
| 1 " | 17'5" x 3" " | 6.29 | 10.37 |
| — Forward, — | | | \$442.25 |

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #5. —

— SECOND FLOOR. BELTING. (continued) —

Brought forward, \$442.25

#46. Monarch Lathe.

| | | | |
|---------|------------------|--------|-------|
| 1 Belt | 17' x 2" single, | \$4.08 | |
| 2 Belts | 13' x 2" " | 9.56 | 13.64 |

#48. Power Press.

| | | | |
|--------|------------------|------|------|
| 1 Belt | 14' x 3" single, | 1.44 | 1.44 |
|--------|------------------|------|------|

#49. Hack Saw.

| | | | |
|--------|------------------|------|------|
| 1 Belt | 18' x 2" single, | 4.32 | 4.32 |
|--------|------------------|------|------|

#50. Lathe.

| | | | |
|---------|-------------------|------|-------|
| 1 Belt | 8' x 3/4" single, | .72 | |
| 1 " | 6' x 1" " | .72 | |
| 2 Belts | 9' x 1" " | 2.16 | |
| 1 Belt | 31' x 2" " | 7.44 | 11.04 |

#51. Lathe.

| | | | |
|---------|-------------------|------|-------|
| 1 Belt | 8' x 3/4" single, | .72 | |
| 1 " | 6' x 1" " | .72 | |
| 2 Belts | 9' x 1" " | 2.16 | |
| 1 Belt | 31' x 2" " | 7.44 | 11.04 |

#52. Lathe.

| | | | |
|---------|-------------------|------|-------|
| 1 Belt | 8' x 3/4" single, | .72 | |
| 1 " | 6' x 1" " | .72 | |
| 2 Belts | 9' x 1" " | 2.16 | |
| 1 Belt | 31' x 2" " | 7.44 | 11.04 |

— Forward, \$494.77

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #5. —

— SECOND FLOOR. BELTING. (continued) —

Brought forward, \$494.77

#53. Lathe.

| | | | |
|---------|-------------------|--------|-------|
| 1 Belt | 8' x 3/4" single, | \$.72 | |
| 1 " | 6' x 1" " | .72 | |
| 2 Belts | 9' x 1" " | 2.16 | |
| 1 Belt | 31' x 2" " | 7.44 | 11.04 |

— Total of Belting, Bldg. #5, Second Floor, \$505.81

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #5. —

— FIRST FLOOR. CHUCKS. —

| | | |
|----------------------------|---------|--------|
| 1 - 3-jaw 5" Chuck, | \$15.00 | |
| 2 - 3-jaw 16" Ind. Chucks, | 46.00 | |
| 1 - 4-jaw 10" " " | 15.00 | |
| 3 - 4-jaw 14" " " | 69.00 | |
| 1 - 3-jaw 16" " " | 30.00 | |
| 2 - 4-jaw 18" " " | 76.00 | |
| 1 - 4-jaw 24" " " | 40.00 | 291.00 |

— SECOND FLOOR. CHUCKS. —

| | | |
|--|-------|-----------------|
| 1 - 3-jaw 3 1/2" Chuck, | 12.00 | |
| 1 - 3-jaw 4" " " | 13.00 | |
| 4 - 3-jaw 5" " " | 60.00 | |
| 1 - 3-jaw 7" " " | 16.00 | |
| 1 - 3-jaw 9" " " | 20.00 | |
| 1 - 3-jaw 10" Ind." " | 15.00 | |
| 1 - 4-jaw 6" Chuck, | 16.00 | |
| 1 - 4-jaw 8" Universal Chuck, | 18.00 | |
| 1 - 4-jaw 9" Chuck, | 20.00 | |
| 2 - 4-jaw 10" Ind. Chuck, | 30.00 | |
| 2 - 4-jaw 12" Universal Chuck, | 40.00 | 260.00 |
| — <u>Total of Chucks in Building #5.</u> — | | <u>\$551.00</u> |

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #5. —

— THIRD FLOOR, MACHINES. —

| | | |
|--|---------|-------------------|
| 1 Miami Valley Co. 14" Bench Drill Press,
1 1/2 H. P. General Electric Co.
Electric Motor, 1200 R. P. M. | \$65.00 | |
| 2 Sloan & Chase 5 1/2" Precision Lathes, | 350.00 | |
| 1 Crocker-Wheeler 1/2 H. P. Electric Motor,
1600 R. P. M. | 50.00 | |
| 1 Sloan & Chase 5 1/2" Precision Lathe, | 175.00 | |
| 1 General Electric Co. Motor 1/2 H. P.
Electric Motor, 1200 R. P. M. | 50.00 | |
| 1 Thomas Olsen Testing Machine, | 900.00 | 1,590.00 |
| — Total of Machines, Bldg. #5, Third Floor, — | | <u>\$1,590.00</u> |

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #5. —

— THIRD FLOOR. SHAFING. —

— SHAFT #1. —

| | | | |
|---------------------|----------------|--------|-------|
| 1 Shaft | 10' x 1 3/16" | \$2.00 | |
| 3 Hangers | 8" x " | 8.82 | |
| 2 Collars | x " | .80 | |
| 1 Pulley | 10" x 2" iron, | 2.04 | |
| 1 " | 14" x 2" " | 2.60 | |
| 1 " | 18" x 4" S. S. | 5.10 | |
| Cost of Installing, | | 5.00 | 26.36 |

— SHAFT #2. —

| | | | |
|---------------------|-------------------|------|-------|
| 1 Shaft | 8' x 1 3/16" | 1.60 | |
| 3 Hangers | 12" x " | 9.45 | |
| 2 Collars | x " | .80 | |
| 1 Pulley | 4" x 3" iron, | 1.56 | |
| 1 " | 8" x 2" " | 1.80 | |
| 1 " | 8" x 2 1/2" iron, | 1.80 | |
| 1 " | 12" x 2" " | 2.28 | |
| 1 " | 14" x 2" | 2.60 | |
| Cost of Installing, | | 5.00 | 26.89 |

— SHAFT #3. —

| | | | |
|---------------------|--------------------|------|-------|
| 1 Shaft | 14' x 1 3/16" | 2.80 | |
| 3 Hangers | 8" x " | 8.82 | |
| 2 Collars | x " | .80 | |
| 1 Pulley | 10" x 3" iron, | 2.04 | |
| 1 " | 14" x 2 1/2" iron, | 2.60 | |
| 1 " | 16" x 2 1/2" " | 2.88 | |
| Cost of Installing, | | 5.00 | 24.94 |

— Total of Shafting, Bldg. #5, Third Floor, — \$78.19

54

Thomas A. Edison, Inc., Laboratory, Valley Road, West Orange, N. J.

— BUILDING #5. —

— THIRD FLOOR, BELTING TO OPERATE MACHINES. —

— Lathe. —

| | | | |
|--------|----------------------|-------------|------|
| 1 Belt | 8' x 1" single, | \$.96 | |
| 2 " | 10' x 1" " | 2.40 | |
| 1 " | 5' x 1" " | .60 | |
| 1 " | 14' x 1 1/4" single, | <u>2.10</u> | 6.06 |

— Motor. —

| | | | |
|--------|----------------------|-------------|------|
| 1 Belt | 10' x 1 1/2" single, | <u>1.80</u> | 1.80 |
|--------|----------------------|-------------|------|

— Drill Press. —

| | | | |
|--------|------------------|-------------|------|
| 1 Belt | 12' x 1" single, | 1.44 | |
| 1 " | 20' x 1" " | <u>2.40</u> | 3.84 |

— Motor. —

| | | | |
|--------|----------------------|-------------|------|
| 1 Belt | 10' x 1 1/2" single, | <u>1.80</u> | 1.80 |
|--------|----------------------|-------------|------|

— Lathe. —

| | | | |
|--------|----------------------|-------------|------|
| 1 Belt | 8' x 1" single, | .96 | |
| 2 " | 10' x 1" " | 2.40 | |
| 1 " | 5' x 1" " | .60 | |
| 1 " | 14' x 1 1/4" single, | <u>2.10</u> | 6.06 |

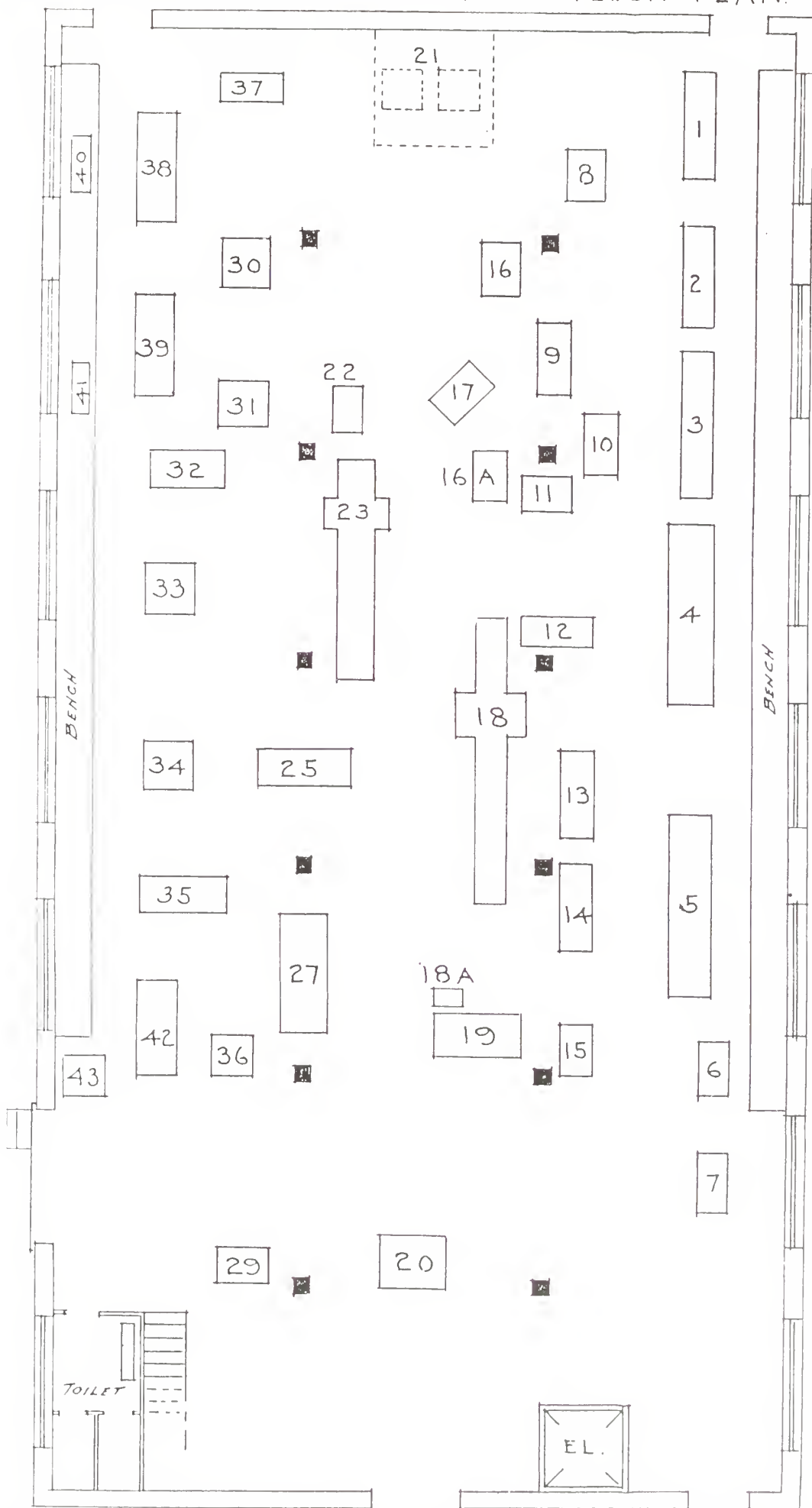
— Motor. —

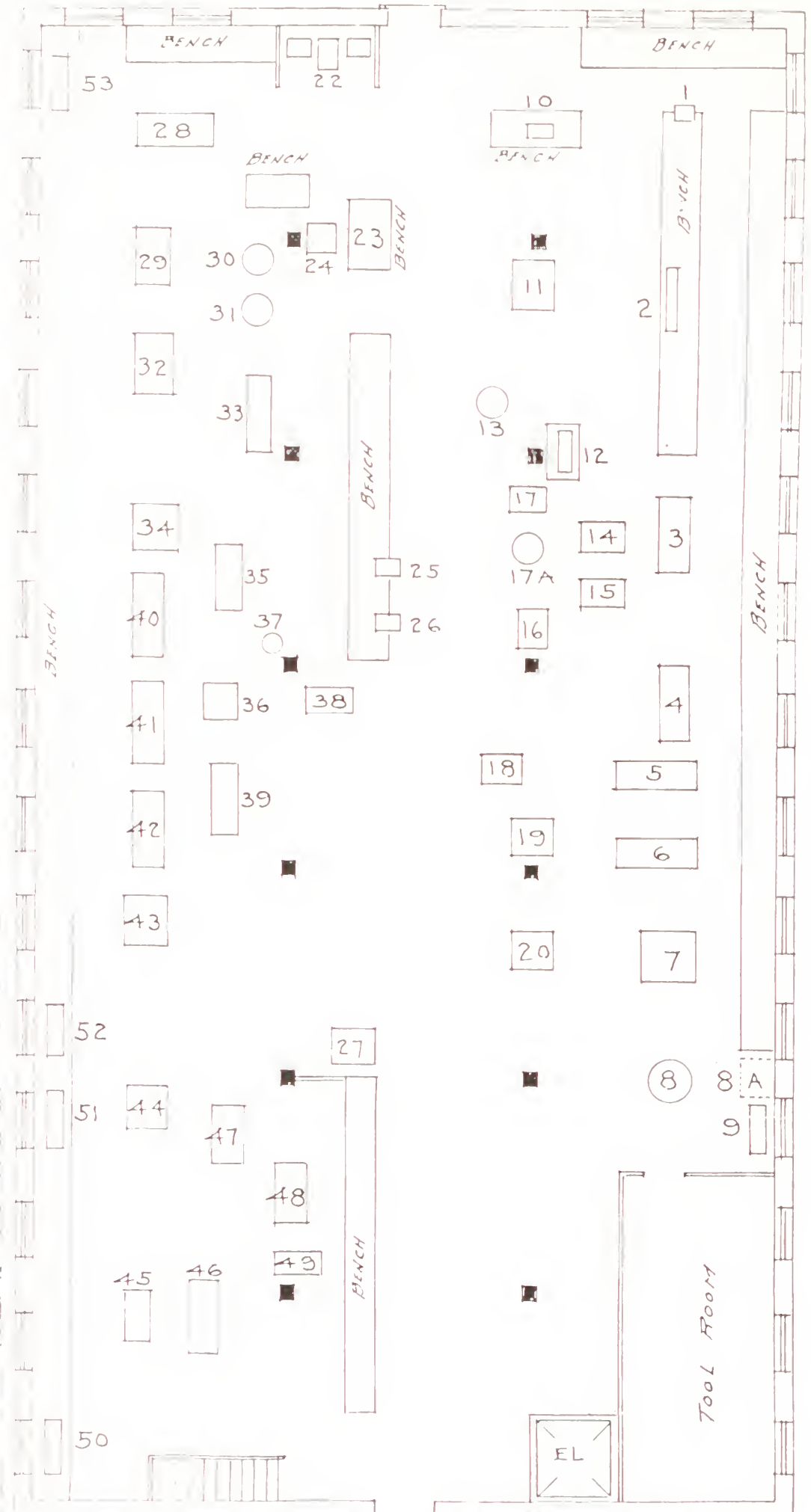
| | | | |
|--------|----------------------|-------------|------|
| 1 Belt | 10' x 1 1/2" single, | <u>1.80</u> | 1.80 |
|--------|----------------------|-------------|------|

Lathe.

| | | | |
|--------|----------------------|-------------|-------------|
| 1 Belt | 8' x 1" single, | .96 | |
| 2 " | 10' x 1" " | 2.40 | |
| 1 " | 5' x 1" " | .60 | |
| 1 " | 14' x 1 1/4" single, | <u>2.10</u> | <u>6.06</u> |

— Total of Belting, Bldg. #5, Third Floor. — \$27.42





APPENDIX F

Machinists' Tools and Tool Chests

Every machinist owned his own measuring and layout devices, along with a complement of hand tools. Eight machinists' tool chests are visible on the bench on the south side of Edison's heavy machine shop in figures 104 and 106 (1914 photographs). Two more can be seen on the north bench in figure 107, and there may be more out of sight behind the camera.

All of these boxes are different. Although none of them conform to the now common form of machinists' tool cabinets that began to appear on the market around 1910, they share some common characteristics.

Machinists' chests feature several shallow drawers that protect and provide ready access to delicate instruments. A single removable panel usually covers the bank of drawers and can be locked to secure their contents. Most machinists' chests have a top till with a hinged lid for large tools. (The box in the foreground of figure 104 does not have this feature.) The inside of the lid is often fitted with a small mirror; not for vanity's sake, but to help the owner locate and remove metal chips from his eyes. The remaining surfaces inside the lid may, or may not, be covered with pin-ups.

Nineteenth century machinists' chests appear broad and squat, compared to their twentieth century counterparts.⁶⁵² Early examples that survive in museum collections have single drawers under deep tills fitted with lift-out trays. Tool chests manufactured by H. Gerstner & Sons, Union Tool Chest Company, and others, beginning in the early years of this century, were taller and shallower front-to-back, presumably to conserve bench space. Their fronts were divided by a larger number of smaller drawers.⁶⁵³

The contents of a machinist's tool chest varied enormously from one owner to another. Machinists completed apprenticeship with a basic set of tools, then added to that kit throughout the course of their careers, picking up specialized devices for a particular job and getting better versions of instruments they already owned (but almost never getting rid of the old ones). Any machinist would have several sizes of inside and outside calipers, both spring joint and firm joint, some dividers, a selection of steel rules and straight edges, machinist's squares, a combination square with centering and protractor heads, files, scrapers, a hacksaw frame, an assortment of wrenches, some screw drivers, a tap wrench or two, prick punches, center punches, cold chisels, and a few ball-peen hammers.

Most of Edison's machinists probably owned micrometers by 1914, but these tools were still comparatively new and had not yet come into universal use. The forerunner of the portable micrometer caliper was first patented in France by Jean Laurent Palmer, in 1848. Joseph R.

⁶⁵² See catalog illustrations for "Acme" tool chests and "Jewelers' or Machinists' Chests" in Montgomery & Co., *Illustrated Catalog and Price List of Supplies, Tools, Machinery...*, (NY: n.d. [ca.1889]) p. 626; Frasse & Company, *Fine Tools, Machinery, and Supplies* (New York: 1889) p. 484. Both catalogs are in the Edison NHS collection.

⁶⁵³ H. Gerstner & Sons, Inc., P.O. Box 517, 20 Cincinnati St., Dayton, OH, telephone no. 513-228-1662, has been in business since 1906 and continues to manufacture the archetypical machinist's tool box.

Brown and Lucian Sharpe brought the first Palmer micrometer to this country in 1867 and produced an adaptation the following year for use as a sheet metal gauge. Brown & Sharpe introduced their first production model of the one-inch standard micrometer to the American market in 1877. An improved model, which had the features and looked very much like modern instruments, came out in 1885.⁶⁵⁴

Union Tool Company of Orange, Massachusetts, listed the basic tools of a metalworking mechanic in a catalog of the 1920s.⁶⁵⁵

- Divider - 3"
- Divider - 6"
- Outside Spring Caliper - 3"
- Outside Spring Caliper - 6"
- Inside Spring Caliper - 4"
- Inside Spring Caliper - 6"
- Hermaphrodite Spring Caliper - 6"
- Outside Firm-Joint Caliper - 10"
- Inside Firm-Joint Caliper - 8"
- Center Gauge
- Thread Gauge
- Thickness [Feeler] Gauge
- 6" Hook Rule
- 4" Rule
- 6" Flexible Rule
- 1 pr. Key Seat Rule Blocks
- 6" Combination Square with Center Head
- 12" Combination Square with Center Head
- Outside Quick-Adjusting Transfer Caliper - 5"
- Inside Quick-Adjusting Transfer Caliper - 5"
- Tap Wrench
- Hacksaw Frame
- Screwdriver - 4-1/2"
- Screwdriver - 6"
- Screwdriver - 7-1/2"
- Center Punch, Size A
- Center Punch, Size B
- Center Punch, Size C
- Center Punch, Size D

In addition to the basics listed above, a machinist working at the Edison Laboratory would probably own most of the following:

Measuring, Layout, and Marking Devices:
Micrometer Caliper

⁶⁵⁴ Joseph Wickham Roe, *English and American Tool Builders: The Men Who Created Machine Tools* (New Haven: Yale University Press, 1916) pp. 212-13.

⁶⁵⁵ Union Tool Company, *Machinists and Mechanics Tools* (Orange, MA: Union Tool Co., n.d. [ca. 1928]) pp. 70-71. Copy in the files of the Division of Engineering and Industry, National Museum of American History (hereafter cited as NMAH), Smithsonian Institution, Washington, DC.

Vernier Caliper
Key-Hole Spring Caliper
Rule Depth Gauge
assortment of inside and outside Firm-Joint Calipers
Gauge Blocks
Surface Gauge (Indicator)
Center Gauge
Screw and Wire Gauge
Straightedge(s) - 12, 18, 24"
Key Seat Rule - 6"
Machinist's Steel Square(s) - an assortment, available sizes ranged from 1x1" to 36x13-1/4"
Machinist's Level
45-45-90 Triangle(s) - steel, probably shop-made
30-60-90 Triangle(s) - steel, probably shop-made
Number and Letter Stamp Set
Scriber
Soapstone
Pencil(s)

Holding Devices:

Machinist's Jacks
Hand Vise(s)
Parallel Clamps (pairs)
Vee Blocks (pairs)
Vee Block Clamps (pairs)
Vise Jaw Caps - brass, probably shop-made

Chisels and Punches:

Cold Chisels
Prick Punches
Pin Punches
Leather Hole Punch (for belting)

Files:

Triangular
Round
Half-Round
Flat
 Bastard
 2nd cut
 Smooth
 Safe Edge
 Knife
File Handles
File Card

Scrapers:

Bearing Scraper
Triangular Scraper
Straight scraper

Drills:

- Breast Drill Brace
- assortment of Twist Drill Bits
- combination Drill-Countersink(s)
- Hammers
- Ball Peen Hammer - 8 oz.
- Ball Peen Hammer - 12 oz.
- Ball Peen Hammer - 16 oz.
- Straight Peen Hammer - 12 or 16 oz.
- Cross Peen Hammer - 12 or 16 oz.
- Machinist's Chipping Hammer - 2 lb.
- Rawhide Hammer

Wrenches:

- selection of Open-End Machine Wrenches
- Screw Adjustable (Monkey) Wrench
- Dog Wrench (square holes for lathe dog and tool post screws)
- Die Stock (Screw Plate)

This expanded list is based on inventories of the Walter Danow and Harold Latham tool chests in the collections of the Smithsonian Institution's National Museum of American History (NMAH). Both Danow and Latham ended their careers as machinists around 1920. Danow worked for R. Hoe and Company, a New York manufacturer of printing presses and other machinery, from 1904 until he left the trade during a protracted strike in the 1920s. His tool chest, made by Union Tool (cat. 84.0625.), contained 128 tools when it came to the National Museum of American History. Latham worked as a toolmaker for United Shoe Machinery in Beverly, Massachusetts. His tool chest made by Union Tool Chest Company, Rochester, New York, includes 246 tools (cat. 89.0259).⁶⁵⁶

The Danow tool chest serves as a reminder that tools are routinely handed down and that there has always been a lively market for good second-hand equipment. Danow (Danowski before Ellis Island) emigrated from Berlin, Germany, in 1895. He began his apprenticeship in 1903, yet his three-drawer mahogany tool chest has a much earlier form and is strikingly similar to tool chests featured in catalogs of the late 1880s. Its handles have the date 1871 in their castings. It is not known whether this was his father's tool chest or a used one that he purchased during or after his apprenticeship.

Datable collections of a single machinist's tools are rare. Either they are added to throughout the individual's career and those of his successors or, in the words of the National Museum of

⁶⁵⁶ A copy of the Smithsonian's inventory of the Danow chest is attached. The Latham chest has not been fully cataloged but photos are available [NMAH negatives 91-13171, 91-13172]. The "Engines of Change" exhibit at NMAH includes the chest of Charles Potter, who began his apprenticeship at Taunton Locomotive Works in 1863 and retired when the plant closed in 1902. The Potter kit is too early to be directly applicable to a 1915 furnishing plan at the Edison site, but his tools do fit within the categories outlined above. For a good illustration of the Potter box and its contents see, Steven Lubar, *Engines of Change: An Exhibition on the American Industrial Revolution* (Washington, DC: NMAH, Smithsonian Institution, 1986), pp. 32, 52-55; also "Machine Shops: Machines to Make Machines," in Brooke Hindle and Steven Lubar, *Engines of Change: The American Industrial Revolution, 1790-1860* (Washington, DC: Smithsonian Institution Press, 1986), pp. 167-184.

American History's David Shayt, "they are handed from machinist-father to non-machinist son and end up disemboweled, their contents scattered through several home workshops."⁶⁵⁷

In the absence of complete tool chests with known pre-1914 provenance, staff at the Edison site will have to use their excellent collection of period trade catalogs to determine whether specific tools are appropriate. This country's most prominent late nineteenth and early twentieth century manufacturers of machinists' measuring and hand tools are listed below.

Manufacturers of Precision Tools and Measuring Devices, in business in 1914:

Brown & Sharpe Manufacturing Company, Providence, RI
Lufkin Rule Co., Chicago, IL
Millers Falls Tool Co., Millers Falls, MA
Pratt & Whitney Co., Hartford, CT
Read & Co., Worcester, MA
Sawyer Tool Manufacturing Co., Fitchburg, MA
L.S. Starrett, Athol, MA
Union Tool Co., Orange, MA

Manufacturers of Machinists' Hand Tools:

Disston, Philadelphia, PA (hack-saw blades, files)
Nicholson (files)
Morse Twist Drill and Machine Co. (taps, dies, twist drills)
Greenfield Taps & Dies, Springfield, MA (taps, dies, twist drills)
William Coes, Worcester, MA (adjustable wrenches)

Tool Chest Manufacturers:

Union Tool Chest Company, Rochester, NY
H. Gerstner & Sons, Dayton, OH

General Tool and Supply Dealers:

Frassee & Company, New York, NY
Manning, Maxwell, and Moore, New York, NY
Montgomery & Company, New York, NY

The following is a copy of the Smithsonian Institution's inventory of Walter Danow's tool chest:

⁶⁵⁷ David Shayt to Collections Committee, July 20, 1984, accession file 1984.0025, NMAH. This sentiment was reinforced in conversations with John Bowditch, Curator of Machinery, Henry Ford Museum; Rob Howard, Curator, Hagley Museum; Peter Liebhold, Division of Engineering and Industry, NMAH; Matt Roth, Curator, The Peterson Museum; and Robert Vogel, retired Curator of Civil and Mechanical Engineering (now Division of Engineering and Industry), NMAH.

To: Accession 1984.0625

Page: 1 of 3

From: David Shayt, MSCE

Subject: Objects in this Accession

Total Objects: 146 Subject: MACHINIST TOOL CHEST & ACCESSORIES

- .001 = DANOW TOOL CHEST (17 1/2"x11 1/2"x10 1/2"h), wood, locking, 3 drawers
- .002 = CHEST KEY (3"), hollow barrel, all steel, 3 bands of necking
- .003 = MICROMETER (6 3/4"x3 1/8") w/ box, Brown & Sharpe #47, 1902, 2" jaw
- .004 = MICROMETER TEST GAUGE BLOCK (1/4"x1"dia.), Brown & Sharpe
- .005 = MICROMETER (4 1/2"x2"), Starrett #113, 1" throat, 1" jaw, w/ box
- .006 = MICROMETER-ADJUSTMENT WRENCH (1 3/8"), blued steel
- .007 = MICROMETER-ADJUSTMENT WRENCH (1 1/2"), steel
- .008 = MICROMETER-ADJUSTMENT WRENCH (1 7/8"), steel
- .009 = MICROMETER-ADJUSTMENT WRENCH (2"), steel
- .010 = MICROMETER-ADJUSTMENT WRENCH (2 1/2"), blued steel
- .011 = INSIDE MICROMETER SET (21 1/2", assembled), Sawyer Tool Mfg. Co., w/ case
- .012 = TRAMMEL (14 1/2" reach)
- .013 = TRAMMEL (33 1/2" reach), "W. DANOW", with beam extension
- .014 = SURFACE INDICATOR (5" scribe, 7 1/2" & 12" spindles), Starrett, 1896
- .015 = SURFACE INDICATOR (5 1/8"x1 3/4"), for use on lathes with .014
- .016 = ADJUSTABLE SQUARE (4"x2 3/8"), Starrett #22
- .017 = ADJUSTABLE COMBINATION SQUARE (9"x6 3/4"), Sawyer #4
- .018 = VEE-BLOCK (2 5/8"x1 5/8"x1 3/4"), four-sided
- .019 = VEE-BLOCK (2 1/8"x2 5/8"x1 1/2"h), single vee
- .020 = VEE-BLOCK (2 1/8"x2 5/8"x1 1/2"h), single vee
- .021 = VEE-BLOCK HOLD-DOWN (2 1/4"x1 7/8"x3/8"), missing hold-down bolt
- .022 = SCREWDRIVER (4 3/4"x1" dia.), broken blade
- .023 = SCREWDRIVER (10 1/4"x1" octagonal handle), Sawyer, 1899
- .024 = SCREWDRIVER (12 1/2"x1 1/8" octagonal handle), Sawyer, 1899
- .025 = SCREWDRIVER (15"x1 1/4" octagonal handle), Sawyer, 1899
- .026 = MACHINIST SQUARE (10 3/8"x6"), Sawyer
- .027 = MACHINIST SQUARE (4 7/8"x3 1/2"), Sawyer(?)
- .028 = MACHINIST SQUARE (3 5/8"x2 5/8"), Sawyer
- .029 = MACHINIST SQUARE (1 3/8"x1 1/4"), Sawyer, bevel end
- .030 = SQUARE (4"x3"), W. DANOW, apprentice work?
- .031 = T-SQUARE (11 3/4"x5 3/4"), possibly shop-made by apprentice Danow
- .032 = STRAIGHT-EDGE RULE (12"x1 1/4"x1/4")
- .033 = KEY-SEAT RULE (6"x1"x1/8")
- .034 = COMBINATION BEVEL (4 1/4" x 1 1/2"x1/8"), Sawyer, 1893
- .035 = MACHINIST LEVEL (6"x7/8"x7/8")
- .036 = TRIANGLE TEMPLATE--30°-60°-90° (5"x2 7/8"), sheetmetal
- .037 = TRIANGLE TEMPLATE--45°-45°-90° (6 1/8"x4 1/4"), sheetmetal
- .038 = RULE (12"x 3/8"), Sawyer #11, 64ths & 100ths
- .039 = RULE (9"x7/8"), Starrett, 8ths, 10ths, 12ths, & 16ths
- .040 = RULE (4"x5/8"), Starrett #1, WD, 10-100ths, 12-48ths, 14-28ths, 16-64ths
- .041 = RULE (4"x3/4"), Chesterman-Sheffield #300, F. Stolle, 16ths & 32nds

.042 = GAUGE BLOCK (1 1/4"x1"x3/4"), .750, 1.000, 1.250
.043 = GAUGE BLOCK (15/16"x7/8"x5/8"), .9375, .625
.044 = GAUGE BLOCK (15/16"x7/8"x1/2"), .500
.045 = GAUGE BLOCK (15/16"x7/8"x7/16"), .875, .9375, .4375
.046 = GAUGE BLOCK (15/16"x7/8"x3/8"), .375
.047 = GAUGE BLOCK (15/16"x7/8"x5/16"), .3125
.048 = GAUGE BLOCK (15/16"x7/8"x1/4"), .250
.049 = GAUGE BLOCK (15/16"x7/8"x3/16"), .1875
.050 = GAUGE BLOCK (15/16"x7/8"x /64"), .1718
.051 = GAUGE BLOCK (15/16"x7/8"x5/32"), .1562
.052 = GAUGE BLOCK (15/16"x7/8"x9/64"), .1406
.053 = GAUGE BLOCK (15/16"x7/8"x1/8"), .125
.054 = GAUGE BLOCK (15/16"x7/8"x7/64"), .1093
.055 = GAUGE BLOCK (15/16"x7/8"x3/32"), .0937
.056 = GAUGE BLOCK (15/16"x7/8"x5/64"), .0781
.057 = GAUGE BLOCK (15/16"x7/8"x1/16"), .0625
.058 = DRILLING CALCULATOR (3 1/8"x3 1/4"), Detroit Twist Drill Co.
.059 = INSIDE CALIPERS(5 1/8"), W. DANOW
.060 = OUTSIDE CALIPERS (2 7/8"), apprentice-made?
.061 = OUTSIDE CALIPERS (4 9/16"), W.DANOW
.062 = OUTSIDE CALIPERS (5 1/8"), WD, PLOWENTRAUS NEWARK NJ, 1899.
.063 = DIVIDERS (3 5/8")
.064 = DIVIDERS (5 5/8"), W. DANOW, STARRETT, 1885
.065 = PROPORTIONAL DIVIDERS (6 11/16"), (part of a drafting(?) set)
.066 = RADIUS GAUGE (7"x1/4"x1/4"), apprentice-made?
.067 = GLASS CUTTER (6"x1 3/8"x9/16")
.068 = CENTER (3 7/16"x31/64 dia.), HOE & CO., C(leveland Twist Drill & Machine) Co.
.069 = CENTER (3 1/2"x5/16"), UNION TWIST DRILL CO.
.070 = END MILLING CUTTER (3 3/16"x7/16" dia.), hole-finishing cutter
.071 = GAUGE(?) (1 7/8"x1/4"x1/2"), R.HOE & Co, C29
.072 = TOOL TAGS (3/64"x1" dia.), six(6) brass tags, R.HOE & CO. D37 30
.073 = WRENCH (4"x15/16"x5/16")
.074 = PENCIL (2"x7/16" dia.)
.075 = STEEL STOCK (7"x1/2" dia.)
.076 = THREAD GAUGE (7/16"x1 13/16" dia.), SAWYER, 39 gauges, 4-60 threads/inch
.077 = SCRIBER (7 1/4"x1/4"), SAWYER
.078 = THICKNESS GAUGE (3 5/16"x1/2"x1/8"), WD, STARRETT #172A, 9 gauges
.079 = RULE CLAMP (2 5/8")
.080 = DEPTH GAUGE (2 3/8"x3")
.081 = DEPTH GAUGE BODY (2 1/16"x1 1/2")
.082 = VEE-BLOCK (1 1/4"x5/8"x7/8")
.083 = MOUNTABLE VEE-BLOCK (2 3/4"x3/8"x1")
.084 = DOVETAIL GAUGE(?) (4 13/16"x11/16"x1/8")
.085 = SCRIBER(?) (5 3/4"x7/32")
.086 = STEEL STOCK(1 1/16"x1/4"x1/4")
.087 = BOX OF SMALL TWIST DRILLS (4 3/16"x7/8"x7/8"), sixteen(16) drills & drill bits
.088 = TWIST DRILL (3 11/16"x3/16"dia.)
.089 = TWIST DRILL (4"x1/4" dia.)
.090 = TWIST DRILL (4 1/8"x1/4" dia.)
.091 = TWIST DRILL (4 1/2"x19/64" dia.), L-W.T.D.CO TAUNTON, MASS.
.092 = TWIST DRILL (4 3/8"x5/16" dia.)
.093 = TWIST DRILL (4 1/2"x3/8" dia.)

- .094 = COUNTERSINK BIT (1 1/8"x5/16" dia.)
- .095 = PUNCH (2 7/16" x 5/16" dia.)
- .096 = PUNCH (3 3/16"x7/16" dia.)
- .097 = PUNCH (3 3/8"x7/16")
- .098 = PUNCH (3 7/8"x1/2")
- .099 = PUNCH (4 1/8"x9/16")
- .100 = PUNCH (4 3/8"x7/16"x7/16")
- .101 = PUNCH (4 5/16"x9/16"x3/8"), W.D.
- .102 = PUNCH (4 3/8"x9/16"x7/16"), formerly a hand file
- .103 = PUNCH (4 5/8"x7/16" dia.)
- .104 = COLD CHISEL (4 7/8"x1/4" dia.), STANLEY ALLOY NO 74
- .105 = PUNCH (5 7/8"x7/16"x7/16")
- .106 = CENTERING CUP?(1/2"x3/4" dia.)
- .107 = CENTERING CUP?(5/8"x1" dia.)
- .108 = CENTERING CUP?(1 1/4"x3/4" dia.)
- .109 = CENTERING BALL? (1/2" dia.)
- .110 = KEY-SEAT RULE BLOCK (1 1/4"x1/2"x1/2"), SAWYER
- .111 = KEY-SEAT RULE BLOCK (1 1/4"x1/2"x1/2"), SAWYER
- .112 = SCREWDRIVER BLADE INSERT (3/8" blade), replaces blade on .024
- .113 = SCREWDRIVER BLADE INSERT (1/2" blade), replaces blade on .025
- .114 = SCREWDRIVER BLADE INSERT (1/2" blade), replaces blade on .025
- .115 = SCRIBING PIN(?) (2"x3/8" dia.)
- .116 = CASE OF RULES (12 7/16"x1 11/16"x1 3/8"), 8 rules, 1 center gauge, SAWYER
- .117 = CASE OF MASTER SCREWS (5 15/16"x3 11/16"x15/16"), 14 screws, 6 missing
- .118 = CLAMP (4"x1/2" jaws), SAWYER
- .119 = CLAMP (5 7/8"x3/4" jaws)
- .120 = C-CLAMP (1 1/4" jaw, 1 5/8" throat), W.D.
- .121 = KNURLING TOOL (5 11/16"x 3/4" dia. knurling wheel)
- .122 = ROUND FILE (10" x 1" dia handle)
- .123 = TRIANGULAR FILE (10 1/4" x 1" dia. handle)
- .124 = TRIANGULAR FILE (7 1/8"x3/16")
- .125 = BALL-PEAN HAMMER (12 7/8"x2 3/4" hammerhead)
- .126 = PLIARS (5 5/8"x 5/16" jaws), KRAEUTER
- .127 = PUNCH (8 3/4"x3/8" dia.)
- .128 = DRILL CANISTER (4 13/16"x3 1/8" dia.), seventeen(17) MORSE bits, #3-#28
- .129 = APPRENTICESHIP-COMPLETION CERTIFICATE (16"x20"), Walter Danow, Hoe. Co. grad.
- .130 = SCHOOL-GRADUATION CERTIFICATE (10 5/8"x12 5/8", framed), Danow's Hoe school cert.
- .131 = UNION-MEMBERSHIP CERTIFICATE (12 1/2"x8 1/2"), 35-year award to Danow(143635)
- .132 = UNION-MEMBERSHIP CERTIFICATE (13"x9"), 45-year award to Danow, dated 1949
- .133 = UNION-MEMBERSHIP CERTIFICATE (13"x9"), 50-year award to Danow, IAM Lodge #434
- .134 = UNION-MEMBERSHIP CARD (3 5/8"x2 1/4"), 50-year award conferring life membership
- .135 = UNION-MEMBERSHIP LETTER (8 1/2"x11"), from E. Peterson to Danow, 5 January 1951
- .136 = UNION-MEMBERSHIP LAPEL PIN (5/8" dia.), IA of M
- .137 = UNION-MEMBERSHIP LAPEL PIN (1/2" triangular), 35-year IAM pin
- .138 = UNION-MEMBERSHIP LAPEL PIN (5/8" dia.), 45-year IAM pin
- .139 = UNION-MEMBERSHIP LAPEL PIN (5/8" dia.), 50-year IAM pin
- .140 = MACHINE-SHOP PHOTOGRAPH (3"x5"), Walter Danow at surface grinding machine
- .141 = UNION-PICNIC PHOTO (5 1/4"x4 1/4", matted), 13 June 1908, Danow 2nd from r. rear
- .142 = APPRENTICE CLASS PHOTO (7 1/2"x4 1/4", matted), Hoe fire-escape, Danow 4th fr.l.
- .143 = APPRENTICE CLASS PHOTO (6 3/8"x5 3/8", matted), drafting room, Danow 2nd from r.
- .144 = MACHINE-SHOP PHOTO (10"x8"), Hoe Co. shop, Walter Danow not identified
- .145 = ADJUSTABLE WRENCH (12 1/2", 1" jaws), HD SMITH CO., PAT 1900, 1901
- .146 = BREAST DRILL (15 1/4"), MILLERS FALLS, PAT 1910

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U.S. Department of the Interior Mission Statement

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally-owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



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